

Oracle India Pvt. Ltd. India Development Center

 Oracle Technology Park
 CIN: U74899DL1993PTC051764

 3. Bannesghaza Park
 Phone +91 80 4107 0000

 Bangalara - 560 029
 Fax +91 80 2552 6124

Private & Confidential

Ref: Oracle-Interns- 1605787

12th Aug 2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms.Vanshika Agarwal, student of Cummins College of Engeering, Pune (Pursuing Electronics and Communication Engineering) has completed her project with Oracle India Private Limited.

The project was undertaken from 01-Jun-2022 to 26-Jul-2022. She worked on "Database cloud images processing automation for DB fix delivery team under SE LOB".

We wish her all the best in her future endeavours.

Yours sincerely For Oracle India Private Limited.

Kendero

Rambabu Jagatha **Director – HR Operations**



Ref No: MPHTH_GEN2022_0029

This is to certify that Ms.vishakha Vilas Aiwale, student of Cummins College of Engineering, Pune (Pursuing Electronics and Communication Engineering) has completed her internship with Mphasis.

The internship period was undertaken from Jun-2022 to Aug-2022. She worked on the Insurance domain team under Wyde insurance by Mphasis.

We wish her all the best in her future endeavors.

Thanks & Regards,

Human Resources | HRBP & PMO

Patfoci Technologies Inc. 2450 Marion Road SE, Suite # 1 Rochester, MN 55904-6219 USA

office: +1-507-312-2229 email: info@patfoci.com website: www.patfoci.com



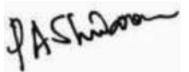
September 10, 2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that the student **Miss. Snehal Dilip Ajetarao**, of Electronics and Telecommunication Engineering Department of MKSSS's Cummins College of Engineering for Women, Pune, interned with Patfoci Technologies Inc. during the period 15th June 2022 to 15th August 2022. She reviewed literature on seismocardiogram sensors, tested the operation of an accelerometer and collected sample electrocardiogram and phonocardiogram data using Labchart.

Please contact me with any questions regarding this certificate.

Sincerely,



Dr. Shivaram Poigai Arunachalam, Ph.D., D.B.A. Founder & CEO

cc: Patfoci records.





Date: 19.09.2022

TO WHOMSOVER IT MAY CONCERN

This is to certify that **Himani Antad** has successfully completed her internship project with Cummins Technologies India Private Limited from period 06.07.2022 to 31.08.2022.

Project Title - Computer Security and Cryptography

Guide Name - Bhaichandra S Phad

Her performance was found satisfactory during this period.

We wish her the best for all her future endeavors.

For Cummins Technologies India Private Limited

Prabeer Kumar Maiti Line HR Leader – CBU, EBU & TCL Engineering

Cummins Technical Centre India Division of Cummins Technologies India Private Limited Survey No. 31(pt), 32(pt), 33(pt), Dahanukar Colony, Kothrud, Pune 411038, Maharashtra, India Phone number 491 020 2536 5435 / 2536 0240 Cumminsindia.com clini@cummins.com

Register Office Cummins Technologies India Private Limited, Cummins India Office Campus Towe A.2nd, 4th & 8th Floor, Survey No. 21, Balewadi, Pune 411045, Maharastra, India CIN:U29113PN1994FTC139153



AC /HRD/2022-23 August 10th, 2022

TO WHOM SOEVER IT MAY CONCERN

This is to certify that Ms. Renuka Aole D/o Mr. Upendra Aole, student of Maharshi Karve Stree Shikshan Samstha's Cummins College of Engineering for Women, Pune has completed her internship from 10th June, 2022 to 9th August, 2022 as a part of her academic curriculum of Electronic and Telecommunication Engineering.

She was assigned the project on 'Communication Protocol & Temperature PID Loop' and submitted the report to us which sounds very good.

During the internship, she visited our unit on daily basis and completed her training satisfactorily during above mentioned period. She has exhibited good conduct, positive attitude, sincerity and commitment towards learning tasks assigned.

We wish her a successful career in future.

For UltraTech Cement Limited Dhar Cement Works

Bhupendra Singh (FH-HR)



UltraTech Cement Ltd. (Unit : Dhar Cement Works)

Corporate Identification Number (CIN) L2604000PLC128420 IterFech Cenent Ltd. Unit: One: Cenent Works, Villige: Torki: Torki: Manawar, Pin: 454.445, Dist. Dist. (M.P.). India (F. 1917204.233658) W. www.utestachcame Registered Office: UterTech Cenent Ltd., 17 Weg, 2nd Floor, Anuta Centre, Material Cenes Road, Anthent (E), Murebai-400 993 T 1991.22.66917900 (F. 1991.22.6692 8108 भारत बरकार, रक्षा मजालय रक्षा अनुसंधान एवं दिकास संस्थापन आयुध अनुसंधान एवं विकास संस्थापन डॉ. होमो माभा पथ, आयुध डाकथर, पापाण, पुणे - 411021 भारत

100 (11.38, 5001, 2016 (1109) 150 (2017, 2015 Certified



ran realination man Service to Services Covernment of India, Minuary of Defence Defence R & D Organisation (DRDO)

Armament R&D Estt. (ARDE) Dr. Homi Bhabha Road, Armament Post, Pashan, Pune - 411021 INDIA

territe/Website www.drda.gov.in

No. ARDE/35/2/iv/96-Tech Sr No. 44/2022

nill Manotsay

03 Aug 2022

CERTIFICATE

This is to certify that Ms. Shriya Ravindra Avachat, B. Tech. (Electronics and Telecommunication Engineering) student from Cummins College of Engineering for Women, Pune has successfully completed internship on "Design of Laser Diode Driver Circuit and its PCB Layout" at ARDE as a part of curriculum during 01 Jun 2022 to 31 Jul 2022 under the guidance of Shri Vishwanath Sonna, Sc 'F'.

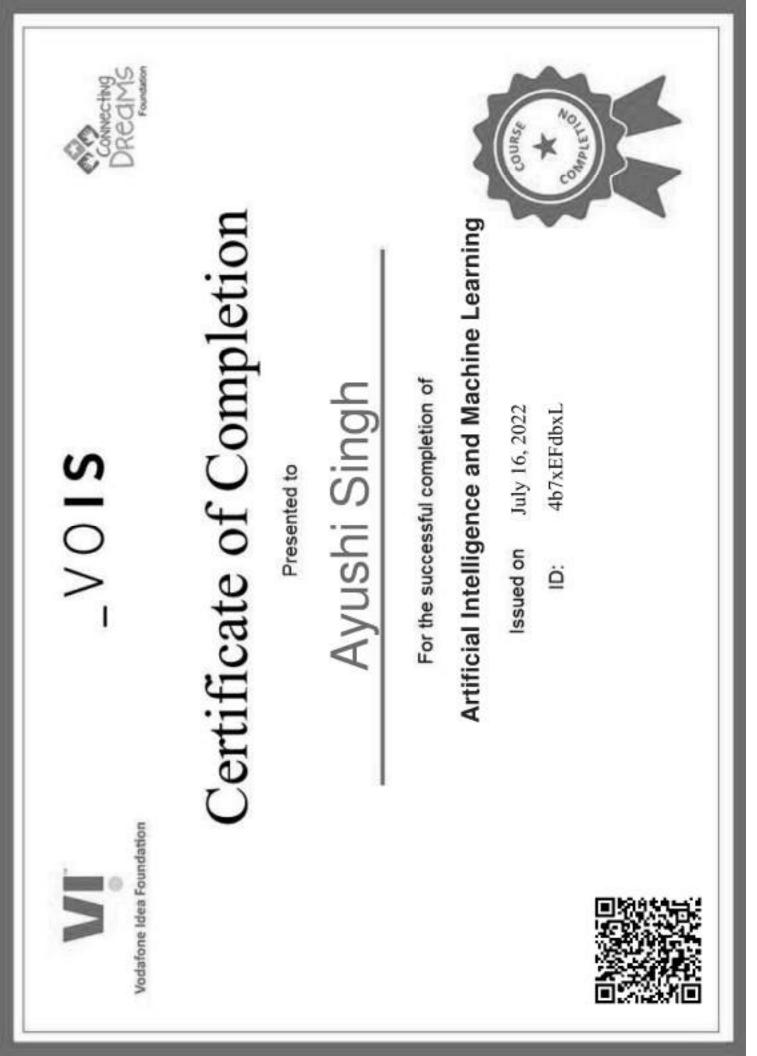
(E mail: vishwanath.sonna@gmail.com)

During her attachment to this Establishment, her attendance was regular and conduct exemplary.

We wish her very best in her future career.



(Alok Kanhai) Scientist 'F' For Director ARDE



AKON GROUP OF INDUSTRIES

INDIA I LONDON I USA I SINGAPORE I DUBAI I AUSTRALIA I GERMANY

ONLINE SERVICES PVT LTD ONLINE SERVICES INC. INTERNATIONAL LIMITED INTERNATIONAL CORPORATION INTERNATIONAL TECHNOLOGY DASK ONLINE SERVICES PVT LTD

Date : 24-07-2022

INTERNSHIP COMPLETION CERTIFICATE

TO WHOM IT MAY CONCERN

This is to certify that Ms. Ayushi Varshney has successfully completed her internship during her tenure 18-04-2022 to 19-07-2022 in AKON GROUP OF INDUSTRIES starting off as an Automation Developer Intern and getting promoted to the role of Jr. Technical Project Manager Intern, with the first month being her training period.

During her tenure we found her to be punctual, hardworking, inquisitive, and dedicated to the project allotted to her under the guidance of Ms. Shreya Ayyagari She has duly completed the project and assignment assigned to her with an excellent result.

We wish her all the best for her future endeavors.

JASBIR SINGH

SEA

EAL

GLOBAL HR - AKON GROUP OF INDUSTRIES

+91 7700987744 / +91 6299188177 / +16467680692 / +13477524775 care@akonzon.com / ceo@akonzon.com / ceo@akongroupintl.com / hr@akongroupintl.com www.akoninternational.co.uk / www.akonzon.com / www.akongroupintl.com



To, Dr. Prachi Mukherjee HOD, Electronics and Telecommunications Dept Cummins College of Engineering for Women Karvenagar, Pune - 411052 Vidya Munde-Müller Givetastic Technologies UG (haftungsbeschränkt)

Walderseestraße 7 30163 Hannover

08.08.2022

Subject: Completion letter for Internship Project

Dear Madam,

This letter is to confirm that the following project team has successfully completed the Internship project under the guidance of Mrs. Vidya Munde-Müller, CEO Givetastic

Project Duration: 05th June 2022 - 05. Aug 2022

- 1. 3180 Akshata Ashok Lalage
- 2. 3203 Anuja Limaye
- 3. 3115 Gayatri Belhekar
- 4. 3236 Prapti Pravin Kawthekar
- 5. 3852 PRARTHANA RANADE
- 6. 3256 Kalyani Vivek Taralekar
- 7. 3118 SHRUTI BHARAT
- 8. 3161 Sanika Kalloorkar
- 9. 3111 SAKSHI BADHAN
- 10. 3120 CH S SATHVIKA

Subject area of the project: Web Platform Development (Next.js, React, HTML, JS, CSS)

letter

Vidya Munde-Müller



_VOIS



CERTIFICATE **OF INTERNSHIP**

This is to certify that

Pradnya Badole

......................

from Cummins College of Engineering for Women, Pune has successfully completed

Virtual Micro-Internship under _VOIS for Tech University Engagement Program's Innovation Marathon 2022

to develop a project on "Sign detector and text editor".

The internship is conducted from June 2022 to August 2022

Nagesh Singh chropool

Director, **Connecting Dreams Foundation**

Head Vodafone Idea Foundation & CSR Head

Dr. Nilay Ranjan

Vodafone Idea Limited



TECHSTERR TECHNOLOGY SOLUTIONS PRIVATE LIMITED

Website: www.techsterr.co.in

Email: Techsterr61@gmail.com

Date: 09/08/2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that the student Miss. Akshata Bagul

Of Electronic and Telecommunication Engineering Department of MKSSS's Cummins College Of Engineering for Women, Pune has satisfactorily completed her internship working on a" Automation of hydroponic farming project" during the period 8th June 2022 to 8th August 2022 under our guidance.



For Techsterr Technology Solutions Pvt. Ltd.

R&D Department

Prajakta Sudrik

Co-founder Techsterr Technology Solutions Pvt. Ltd.

Office: Surya Towers , Door no. 1-7-4 to 19. Flat –B1, 4th Floor, Sardar Patel Road, Kalsiguda,Secunderabad,Telangana-500003



To, Dr. Prachi Mukherjee HOD, Electronics and Telecommunications Dept Cummins College of Engineering for Women Karvenagar, Pune - 411052 Vidya Munde-Müller Givetastic Technologies UG (haftungsbeschränkt)

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Subject area of the project: Web Platform Development (Next.js, React, HTML, JS, CSS)

letter

Vidya Munde-Müller



_VOIS



CERTIFICATE **OF INTERNSHIP**

This is to certify that

Charushila Bhadane

.................

from Cummins College of Engineering for Women, Pune has successfully completed

Virtual Micro-Internship under _VOIS for Tech University Engagement Program's Innovation Marathon 2022

to develop a project on "Sign detector and text editor".

The internship is conducted from June 2022 to August 2022

Nagesh Singh chropool

Director,

Connecting Dreams Foundation

Dr. Nilay Ranjan

Head Vodafone Idea Foundation & CSR Head Vodafone Idea Limited Microsoft India (R&D) Pvt. Ltd Prestige Ferns Galaxy Survey No, 7/1, 7/2 & 8/1A Ambalipura Village, Varthur Hobli Outer Ring Road, Bengaluru 560103

Microsoft

Tel + 91-80-61772000 http://www.microsoft.com/india

29-Jul-22

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ragini Bhagwat** from the Cummins College of Engineering For Women, Pune has successfully completed her Internship in the **"Experience & Devices"** team under **Microsoft India (R&D) Pvt. Ltd, Bengaluru** from 6-Jun-22 to 29-Jul-22. She has completed the internship under the guidance of Nilavalagan Irulappan (Niirulap) and Peeyush Jain (Pejain).

We wish her all the best in her future endeavors.

Yours Sincerely, For Microsoft India (R&D) Pvt. Ltd

Ira Gupta SR GEO HR DIRECTOR

Signature of Candidate

Microsoft India (R&D) Pvt. Ltd.

Registered Office: 807, New Delhi House, Barakhamba Road, New Delhi-110001. CIN: U72200DL1998PTC093824



To, Dr. Prachi Mukherjee HOD, Electronics and Telecommunications Dept Cummins College of Engineering for Women Karvenagar, Pune - 411052 Vidya Munde-Müller Givetastic Technologies UG (haftungsbeschränkt)

Walderseestraße 7 30163 Hannover

08.08.2022

Subject: Completion letter for Internship Project

Dear Madam,

This letter is to confirm that the following project team has successfully completed the Internship project under the guidance of Mrs. Vidya Munde-Müller, CEO Givetastic

Project Duration: 05th June 2022 - 05. Aug 2022

- 1. 3180 Akshata Ashok Lalage
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- 10. 3120 CH S SATHVIKA

Subject area of the project: Web Platform Development (Next.js, React, HTML, JS, CSS)

letter

Vidya Munde-Müller



HEATCON SYSTEMS Office No: 5, First Floor, Thakur Complex, PAPJ-129, Near Quality Circle, MIDC Bhosari, Pune - 411 026, Maharashtra, India Udyog Adhar No : MH01A0026745

REF NO: Heatcon/IoT/0822/102 08/08/2021

Experience Letter

This is to certify that **Ms. Swarupa Sanjay Biradar** was working with us as a **"Trainee Software Engineer**" from **06/06/2022** till **06/08/2022** at Pune Office.

During this working period, we found her sincere, honest, and hardworking.

She was a dedicated employee with a professional attitude and very good job knowledge.

We wish her all the best for her future career.

For Heatcon Systems



CEO Sanjay Walunj



To, Dr. Prachi Mukherjee HOD, Electronics and Telecommunications Dept Cummins College of Engineering for Women Karvenagar, Pune - 411052 Vidya Munde-Müller Givetastic Technologies UG (haftungsbeschränkt)

Walderseestraße 7 30163 Hannover

08.08.2022

Subject: Completion letter for Internship Project

Dear Madam,

This letter is to confirm that the following project team has successfully completed the Internship project under the guidance of Mrs. Vidya Munde-Müller, CEO Givetastic

Project Duration: 05th June 2022 - 05. Aug 2022

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- 10. 3120 CH S SATHVIKA

Subject area of the project: Web Platform Development (Next.js, React, HTML, JS, CSS)

letter

Vidya Munde-Müller





CERTIFICATE

This is to certify that

Surabhi Chandra

from Cummins college of Engineering pune has successfully completed

Virtual Micro-Internship under _VOIS for Tech University Engagement Program's Innovation Marathon 2022

to develop a project on "Face detection and recognition using KNN".

The internship is conducted from June 2022 to August 2022

Dr. Nilay Ranjan

Head Vodafone Idea Foundation & CSR Head Vodafone Idea Limited

Nagesh Singh Compos N

Director, Connecting Dreams Foundation



-VOIS



CERTIFICATE **OF INTERNSHIP**

This is to certify that

Gayatri Chaure

......................

from Cummins College of Engineering for Women, Pune has successfully completed

Virtual Micro-Internship under _VOIS for Tech University Engagement Program's Innovation Marathon 2022

to develop a project on "Movie recommendations system using ML".

The internship is conducted from June 2022 to August 2022

Nagesh Singh chropool

Director,

Connecting Dreams Foundation



Head Vodafone Idea Foundation & CSR Head Vodafone Idea Limited

Dr. Nilay Ranjan



TECHSTERR TECHNOLOGY SOLUTIONS PRIVATE LIMITED

Website: www.techsterr.co.in

Email: Techsterr61@gmail.com

Date: 09/08/2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that the student Miss. Samruddhi Chavan

Of Electronic and Telecommunication Engineering Department of MKSSS's Cummins College Of Engineering for Women, Pune has satisfactorily completed her internship working on a" Automation of hydroponic farming project" during the period 8th June 2022 to 8th August 2022 under our guidance.



For Techsterr Technology Solutions Pvt. Ltd.

R&D Department

Prajakta Sudrik

Co-founder Techsterr Technology Solutions Pvt. Ltd.

Office: Surya Towers , Door no. 1-7-4 to 19. Flat –B1, 4th Floor, Sardar Patel Road, Kalsiguda,Secunderabad,Telangana-500003



August 16, 2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that the below said intern has completed his/her Internship under the guidance of the reporting manager.

During this tenure, we found him/her sincere and eager to gain knowledge. we wish him/ her all the very best in his/her future endeavors.

Name	: Anushka Sadanand Chikhale
Date of Joining	: June 02, 2022
Internship End Date	: July 29, 2022
Legal Entity	: Myntra Designs Pvt. Ltd.
CTC (per month)	: 60000
Project Name	: Myntra Insider - Benefits Callout on PWA

Yours sincerely,

For Myntra Designs Pvt. Ltd

Nupur Nagpal Chief Human Resources Officer

Myntra – U72300KA2007PTC041799 Myntra Designs Private Limited Buildings Alyssa, Begonia and Clover, Embassy Tech Village,

Buildings Alyssa, Begonia and Clover, Embassy Tech Village, Outer Ring Road, Devarabeesanahalli Village, Varthur Hobli, Bengaluru – 560103, India Ph: 080 – 43540100 Website- <u>www.myntra.com</u> पत्रीक/Ref: PN/18629/16 दिनोक/Date: 30.07.2022



भारत इलेक्ट्रॉनिक्स लिमिटेड

(भारव सरकार का उग्रम, रक्षा मंत्रालय) एर. डी. ए. रोड, पाषाण, पुणे - 411021 - भारत BHARAT ELECTRONICS LIMITED (A Govt. of India Enterprise. Ministry of Defence) N.D.A. ROAD, PASHAN, PUNE 411 021 India. 2 :091 - 20 - 2290 3000 Fax : 091 - 20 - 2566 5729, 25865708 MMD MKTG

जिससे भी सबंधित हो TO WHOM IT MAY CONCERN

प्रमाणित किया जाता कि कमिंस कॉलेज ऑफ इंजीनिअरींग फॉर वुमेन , पुणे के बी. टेक इतेक्ट्रॉनिक्स अँछ टेलिकम्युनिकेशन के छात्र कु. अदिती सुहास चिटणीस ने विकास व अभियांत्रिकी विभाग मे दि. 01.06.2022 से दि. 30.07.2022 तक परियोजना/औद्योगिक इंटर्नशिप सफलतापूर्वक पूरी कि है। हमारे साथ अपने प्रशिक्षण की अवधि के दौरान वे समयनिष्ठ, मेहनती और जिज्ञासु पाये गए।

हम उनके जीवन में हर सफलता की कामना करते हैं।

This is to certify that Ms. Aditi Suhas Chitnis, a student of B. Tech Electronics & Telecommunication from Cummins College of Engineering For Women has successfully completed Project/Industrial Internship from Development & Engineering department from 01.06.2022 to 30.07.2022. During the period of his/her Training with us he/she was found punctual, hardworking and inquisitive.

We wish him/her every success in life.

भवदीय/Yours Faithfully

कृते, भारत इत्तेक्ट्रोनिक्स लिमिटेड् / For, BHARAT ELECTRONICS LTD.

अधिकृत हस्ताक्षरकर्ती/ AUTHORIZED SIGNATORY

साजेश एस. कांडे RAJESH S. KONDE सत्र. प्रबंधक (मा.सं. व प्र.) Asst. Manager (HR & A)

> प्रतीकृत और सामूहिक मतमीलव : आइटर पिंग तेंड, नागसरा, संगलेर - 560 045 भारत. Reg. & Corporate Office : Outer Ring Road, Nagavara, Bangalore - 560 045 India. ∰ : 91 80 2503 9300 Fax : 91 80 2503 9305 Website : http://www.bel-india.in

> > ISO 9001 and ISO 14001 Certified Company

9914 041 004 13S



Regd. Office: Wells Fargo Centre, Building 1A, Divyasree NSL SEZ, Survey No. 66/1, Raidurga Village, Serilingampalli, Hyderabad, India - 500032 91 40 4023 1000, 91 40 4023 1100 (Fax) CIN: U72200TG2006PTC051001

00102000110051001

Wells Fargo International Solutions Private Ltd (Formerly Wells Fargo EGS (India) Private Ltd) Wells Fargo Center, Embassy Tech Village (SEZ), Devarabeesanahalli, Outer Ring Road, Varthur Hobli, Bengaluru -560103, India 91 80 4397 4000, 91 80 4397 4100 (Fax)

Wfindia.legal@wellsfargo.com

August 05, 2022

Intern Name: Shreya Dabbawar

Intern ID: 2084040

Re: Certificate of completion of Internship

Dear Shreya,

This is to certify that you have successfully completed the internship and project assigned to you during the period starting from Jun 06, 2022 till August 05, 2022 ("Internship Duration"). Pursuant to completion of Internship Duration, we hereby relieve you from duties assigned to you, except those of confidentiality obligations agreed during your Internship Duration, after close of working hours of LWD.

We request you to kindly note that our commitment to relieve you is subject to you completing the exit formalities per the company policy.

We wish you the very best in your career.

Please contact Indiafinalsettlement@wellsfargo.com if you have any questions on the exit process.

Sincerely, For Wells Fargo International Solutions Private Ltd

Durgesh Nagarkatte Vice President – HR

-C-B

SAMSUNG

Samsung R&D Institute India - Bangalore Pvt. Ltd.

Aug 05, 2022

Experience Certificate

This is to certify that Ms. Aishwarya Nandkumar Dani (Empl ID: 22515217) has interned with Samsung R&D Institute India – Bangalore Pvt. Ltd., from Jun 06, 2022 to Aug 05, 2022.

For Samsung R & D Institute - Bangalore Pvt. Ltd.

018.0 45

Chetan Swarup Purohit Director Human Resources

Registered Office : # 2870, Phoenix Building, Bagmane Constellation Business Park, Outer Ring Road, Doddanekundi Circle, Marathahalii Post, Bangalore -560037 Tel: 91-80-6126 1000, Fax: 91-80-4681 1001, CIN: U72200KA2004PTC035309



Date: 18th July 2022

CERTIFICATE

This is to certify that Neha Hrishikesh Deodhar from Cummins College of Engineering for Women, Pune has successfully completed the Internship Project in Cummins India Limited - Power Systems Business Unit.

She has done her project with us from 9th June 2022 to 4th July 2022

The topic of her project in Kothrud Engine plant was:

Safety Door Interlock System

Her performance was found satisfactory during the period.

We wish her all the best for all her future endeavors.

For Cummins India Limited

ere. **Rucha Khatal**

HRBP - KEP Operations

Currenins India Limited Registered Office Currenins India Office Campus Tower A. 5" Floor, Survey No. 21, Balewadi Pune 411 045 Maharashtra, India Phone 491 20 67067000 Fax 491 20 67067015 curreninsindia.com cil investorstithotes.currenins.com

CIN 1291129W1082PLC012278

×



HR-SSC/29-08-2022/333419

29 August 2022

To Whom It May Concern,

This is to certify that **Ms. Divya Desai**, student of "**Cummins Women's College, Pune**" has successfully completed her internship in "**Basics of ISP operations covering ILL, GVPN, TX services**" under the guidance of **Ms. Jyoti Vikrant Kadam** at **Tata Communications Limited** from **08 June 2022 to 08 August 2022** by working at our facility at **Pune-Dighi**.

She was found to be sincere and hardworking during her tenure.

We wish her success in all her future endeavours.

The above information is correct as per our company records as on the date of this letter issued. For any questions, please contact us at AskHR@tatacommunications.com

For Tata Communications Limited,

Vailhar Kaul

Warm Regards, Vaibhav Kaul General Manager Note: This is an electronically signed document

Tata Communications - Confidential

TATA COMMUNICATIONS

Tata Communications Limited Pune Alandi Road, Dighi, Pune 411 015 India. Tel: +91 20 6615 3333 Fax: +91 20 6615 3309 Regd. Office: VSB Mahatma Gandhi Road, Fort, Mumbai 400 001 India. Tel: +91 22 6657 8765 Fax: +91 22 6639 5162 email: askhr@tatacommunications.com CIN no. : L64200MH1986PLC039266 website: www.tatacommunications.com



TECHSTERR TECHNOLOGY SOLUTIONS PRIVATE LIMITED

Website: <u>www.techsterr.co.in</u> Email: Techsterr61@gmail.com Date: 09/08/2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that the student Miss. Anushree Deshpande

Of Electronic and Telecommunication Engineering Department of MKSSS's Cummins College Of Engineering for Women, Pune has satisfactorily completed her internship working on a" Automation of hydroponic farming project" during the period 8th June 2022 to 8th August 2022 under our guidance.



For Techsterr Technology Solutions Pvt. Ltd. R&D Department Prajakta Sudrik Co-founder Techsterr Technology Solutions Pvt. Ltd.



July 15, 2022

EXPERIENCE CERTIFICATE

To Whom It May Concern

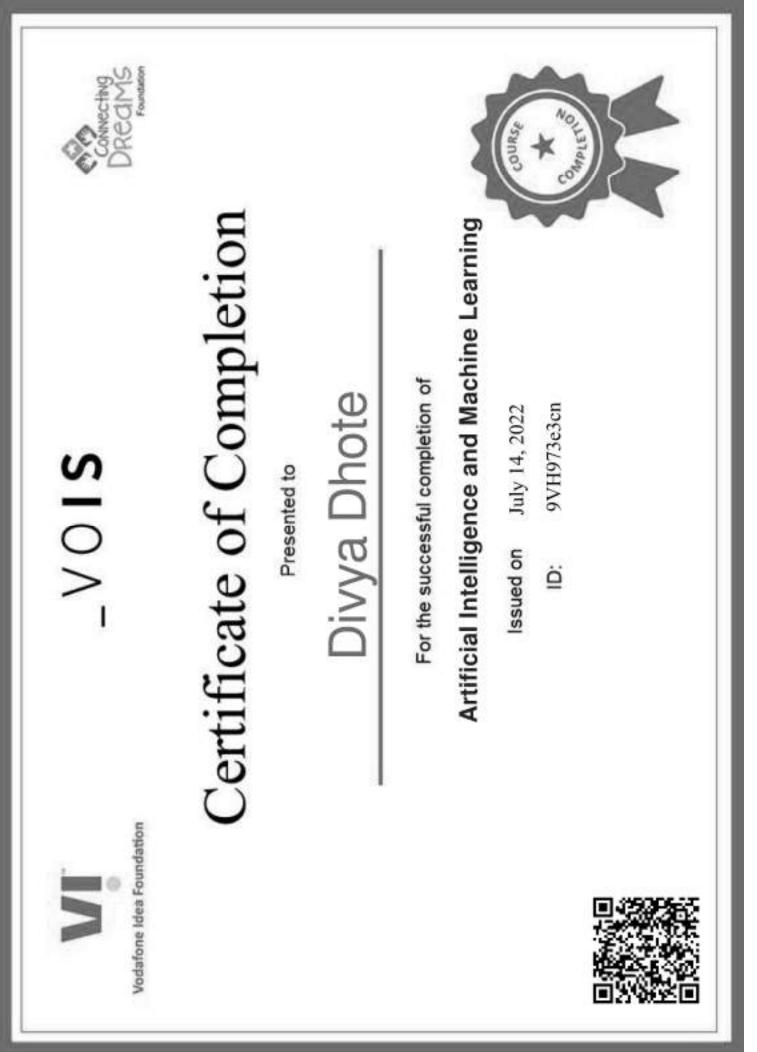
This is to certify that **Prajakta Deshpande (EE ID 131864)** has done internship at Mastercard Technology Private Limited from May 16, 2022 to July 15, 2022 on **Operations and Technology** under the guidance of **Anubha Shedhani.**

We take this opportunity to thank and wish all the best for future endeavors.

Yours faithfully,

For: Mastercard Technology Private Limited <u>People_services@mastercard.com</u> Global Business Services Centre - HR Services

Mastercard Technology Private Limited Business Bay, 3rd Floor, Wing 1, Tower A, Survey No. 103, Opp Poona Club Golf Course, Airport Road, Yerwada, Pune-411006





HR-SSC/29-08-2022/333419

29 August 2022

To Whom It May Concern,

This is to certify that **Ms. Shravani Dongargaonkar**, student of "**Cummins Women's College**, **Pune**" has successfully completed her internship in "Basics of ISP operations covering ILL, **GVPN, TX services**" under the guidance of **Ms. Jyoti Vikrant Kadam** at **Tata Communications Limited** from **08 June 2022 to 08 August 2022** by working at our facility at **Pune-Dighi**.

She was found to be sincere and hardworking during her tenure.

We wish her success in all her future endeavours.

The above information is correct as per our company records as on the date of this letter issued. For any questions, please contact us at AskHR@tatacommunications.com

For Tata Communications Limited,

Vailhar Kaul

Warm Regards, Vaibhav Kaul General Manager Note: This is an electronically signed document

Tata Communications - Confidential

TATA COMMUNICATIONS

Tata Communications Limited Pune Alandi Road, Dighi, Pune 411 015 India. Tel: +91 20 6615 3333 Fax: +91 20 6615 3309 Regd. Office: VSB Mahatma Gandhi Road, Fort, Mumbai 400 001 India. Tel: +91 22 6657 8765 Fax: +91 22 6639 5162 email: askhr@tatacommunications.com CIN no. : L64200MH1986PLC039266 website: www.tatacommunications.com



Internship Certificate

This is to certify that Ms. Pragati Dound has completed her internship at Naya Studio from 01-Jun-2022 to 31-Jul-2022.

facing projects showcasing her skills in frontend and backend web development. During the internship, she demonstrated exceptional ability in numerous client-

We at Naya Studio wish you all the best in your future endeavors.

1 mil

Vivek HV Co-Founder, Naya Studio

Email vivek@naya.studio



TO WHOMSOVER IT MAY CONCERN

This is to certify that **Miss Vedashree Gadekar**, who is pursuing a **B.E. (majoring in Electronics and Telecommunication)** from **Cummins College of Engineering**, **Pune**, has successfully completed **8 weeks** long internship (**from 01**st **June 2022 to 31st July 2022**) with our organisation.

Vedashree Gadekar's job responsibility as an intern at Right Steps Consultancy involved the following tasks:

- Research Work
 - a. Research on applying CNN techniques to sonography images.
 - b. Use of deep learning techniques to identify feature set useful for machine learning based prediction/detection algorithms.
 - Researched multiple image quality assessment algorithms to identify the best approach (BRISQUE) to determine suitability of sonography images before applying deep learning algorithms.
- Project: Breast Cancer Detection Algorithm
 - a. Developed a machine learning algorithm for identification of benign and Malignant tumour.
 - b. Demonstrated excellent grasp of Exploratory Data Analysis and visualization-based feature selection techniques.
 - c. Demonstrated good understanding of Principal Component Analysis techniques for dimensionality reduction.
 - d. Demonstrated deep understanding of classification algorithms like Random Forest and kNN.

During the period of her internship program with us she was found to be sincere, proactive, hardworking and inquisitive. We wish her every success in her life and career.

Regards, For Right Steps Business Solutions Private. Ltd.

RIGHT STEPS BUSINESS SOLUTIONS PRIVATE LIMITED

inivara

DIRECTOR

Swati Srinivasan Founder & CEO



Kanopy Techno Solutions Pvt Ltd

404, 4th floor, TechnoPark, Aerosol Building IIT Kanpur – 208016 Uttar Pradesh, India. Mobile: +91 8604355668, +91 8004567307 Simplifying Research...

Email: contact@kanopytech.com Website: www.kanopytech.com

GSTIN: 09AAFCK7018N1Z2

Certificate of Internship Completion

August 1, 2022

To whomsoever it may concern

This is to certify that Sakshi Galphade of Cummins College of Engineering for women, Pune, has successfully completed her internship with Kanopy Techno Solutions Pvt Ltd, the duration of which was 2 months, from June 01 – July 31 2022. Location of internship was based in Warje, Pune. Her contribution in IC selection using circuit simulation, support in development for advanced impedance calculation algorithm is highly appreciated. We wish her all the best for her future endeavors.

Yours sincerely Kanopy Techno Solutions Put Ltd. Director Anuj Awasthi





HR-SSC/29-08-2022/333419

29 August 2022

To Whom It May Concern,

This is to certify that **Ms. Garima Baleja**, student of "**Cummins Women's College**, **Pune**" has successfully completed her internship in "**Basics of ISP operations covering ILL**, **GVPN**, **TX services**" under the guidance of **Ms. Jyoti Vikrant Kadam** at **Tata Communications Limited** from **08 June 2022 to 08 August 2022** by working at our facility at **Pune-Dighi**.

She was found to be sincere and hardworking during her tenure.

We wish her success in all her future endeavours.

The above information is correct as per our company records as on the date of this letter issued. For any questions, please contact us at AskHR@tatacommunications.com

For Tata Communications Limited,

Vailhar Kaul

Warm Regards, Vaibhav Kaul General Manager Note: This is an electronically signed document

Tata Communications - Confidential

TATA COMMUNICATIONS

Tata Communications Limited Pune Alandi Road, Dighi, Pune 411 015 India. Tel: +91 20 6615 3333 Fax: +91 20 6615 3309 Regd. Office: VSB Mahatma Gandhi Road, Fort, Mumbai 400 001 India. Tel: +91 22 6657 8765 Fax: +91 22 6639 5162 email: askhr@tatacommunications.com CIN no. : L64200MH1986PLC039266 website: www.tatacommunications.com



August 12, 2022

Intern Name: Shruti Gavhane

Re: Certificate of Completion of Internship

Dear Shruti,

This is to certify that you have successfully completed the internship and project assigned to you during the period starting from June 15, 2022 till August 12, 2022 ("Internship Duration"). Pursuant to completion of Internship Duration, we hereby relive you from duties assigned to you, except those of confidentiality obligations agreed during your Internship Duration, after close of working hours of LWD.

We request you to kindly note that our commitment to relieve you is subject to you completing the exit formalities per the company policy.

We wish you the very best in your career.

Please contact <u>contactus@prognosticsoft.com</u> if you have any questions on the exit process.

Sincerely,



Prognosticsoft Solutions Pvt. Ltd.

S/W Development | Website Designing | Mobile Application | QA Testing Web Application Development | ERP Application Development | SEO (Search Engine Optimization)

PROGNOSTICSOFT SOLUTIONS PVT. LTD

CIN: U72900PN2014PTC151473

Office: Udit Apartment, 1st Floor, Sangavi Nagar Road, Near Parihar Chowk, Aundh, Pune - 411 007 Tel: +918237002436 | Email Id: contactus@prognosticsoft.com | Website: www.prognosticsoft.com



Date: 11th May 2022

Subject: Offer Letter as Intern

Dear Ms. Apoorva Shivaji Ghuge

We are pleased to offer you an opportunity as **Intern** with Softra System Pvt. Ltd. for duration of 3 months starting from **01**st **June 2022**.

You are initially appointed to work in Pune office of our Softra System Pvt. Ltd.

During this period, we are not providing any stipend.

At the time of reporting for work, please ensure to bring the following:

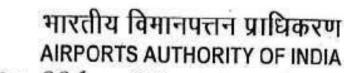
- 1. Xerox copy of proof of date of birth & educational qualifications together with the originals.
- 2. Two stamp sized photographs.

Welcome to Softra System Pvt Ltd and here's wishing you a rewarding career.

Yours Faithfully,



Mr. Santosh Chavan HR Manager Softra System Pvt. Ltd.





संदर्भ संख्या भा.वि.पा./जी.सी./ट्रेनिंग -2022 285-286 Ref.No.: AAI/GC/ Training-2022 / दिनांक : 05.08.2022 Date : 05.08.2022

जिस किसी से यह संबंधित हो TO WHOMSOEVER IT MAY CONCERN

यह प्रमाणित किया जाता है कि सुश्री मधुरा विनायक गिजरे जोकि महर्षि कर्वे स्ती शिक्षण संस्था के कमिस कोलेज ओफ इंजीनियरिंग फोर वुमेन, पुणे से बी.टेक. (इएनटीसी) कर रही है, ने भारतीय विमानपतन प्राधिकरण के डोटस कॉम्प्लेक्स आईजीआई एयरपोर्ट, नई दिल्ली – 110037 के सीएनएस अनुमाग में दिनांक 13.06.2022 से 29.07.2022 तक प्रशिक्षण प्राप्त किया ।

This is to certify that Ms.Madhura Vinayak Gijare who is pursuing B.Tech (ENTC) from Maharishi Karve Stree Shikshan Samstha's Cummins College of Engineering for Women, Pune, has undergone internship training in the CNS Department of Airports Authority of India, DATS Complex, IGI Airport, New Delhi - 110037 from 13.06.2022 to 29.07.2022. प्रशिक्षण अवधि में सुश्री मधुरा विनायक गिजरे ने पूर्ण मनोयोग के साथ उत्साहपूर्ण अभिरुचि प्रदर्शित करते हुए अपने ज्ञान का संवर्द्धन किया तथा कार्यों को सीखने और उत्कृष्ठ कार्य निष्पादन के प्रति पूर्ण इच्छूकशीलता प्रदर्शित की।

During the period of intenship Ms. Madhura Vinayak Gijare enriched her knowledge showing great interest with full attention and showed full dedication towards learning.

महर्षि कयें खी शिक्षण संस्था के कमिंस कॉलेज ऑफ इंजीनियरिंग फॉर युमेन की अनुशंसा के आधार पर प्रशिक्षणोंपरांत यह प्रमाण पत्र सुश्रीं मधुरा विनायक गिजरे के पक्ष में प्रदान किया जाता है। As per the recommendation of Maharishi Karve Stree Shikshan Samstha's Cummins College of

Engineering for Women, this certificate is provided in the favour of Ms.Madhura Vinayak Gijare after satisfactory completion of her internship.

भारतीय विमानपत्तन प्राधिकरण उनके सफल एवं उज्जवल भविष्य की कामना करता है। Airports Authority of India wishes for her successful and bright future.

(अजय कुमार/ Ajay Kumar) संयुक्त महाप्रबंधक (मा.सं)/Jt. General Manager (HR)

सुबी मधुरा विनायक गिजरे / Ms.Madhura Vinayak Gijare

बी.टेक. (इएनटीसी) / B.Tech. (ENTC)

महर्षि कवें सी शिक्षण संस्था के कमिस कोलेज ओफ इंजीनियरिंग फोर युमेन / Maharishi Karve Stree Shikshan Samstha's Cummins College of Engineering for Women पुणै (Pung

होत्रीय मुख्यालय, उत्तरी) होत्र, प्रयालन कार्यालय, गुरूगाम रोस, नई दिल्ली, 110037 दूरमाम - 25652447 फेंक्श - 25656451 Regional Meadquarters, Northern Region, Operational Offices, Gurugram Road, New Dethi-110037 Teto : 25652447 Fax : 25656451 "हिन्दी पत्नी का रवामल है।"

Tech Mahindra

Tech Mahindra Limited

Info city, Hi-tech City Layout Madhapur, Hyderabad 500081,India Tel: +91 40 3063 6363 Fax: +91 40 2311 7011 techmahindra.com

Registered Office: Gateway Building, Apollo Bunder Mumbai 400 001

Ref: HR/CERT/ C109204 Date: 16-Sep-2022

Associate Name : **Purva Godse** GID : **C109204** Address: D/O : Plot no.463, Sector no.25, Telco Housing Society no.13, Nigdi, Pradhikaran, Pune-44.

Subject: Internship Completion Certificate

This is to certify that **Purva Godse** (Associate ID – **C109204**) has completed internship program with **Tech Mahindra Ltd**. (From 10/06/2022 to 10/09/2022). She worked on the project titled Research on Machine Learning Under the guidance of **Mr. Nikhil Malhotra**.

Best Wishes for your future endeavors.

Yours sincerely, For Tech Mahindra Limited,

Vinay Agrawal Head- Business HR





August 16, 2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that the below said intern has completed his/her Internship under the guidance of the reporting manager.

During this tenure, we found him/her sincere and eager to gain knowledge. we wish him/ her all the very best in his/her future endeavors.

Name : Vaishnavi Kashinath Hapse

Date of Joining : June 02, 2022

Internship End Date : July 29, 2022

Legal Entity : Myntra Designs Pvt. Ltd.

CTC (per month) : 60000

Project Name : Enhancing the existing dashboard for Mysql and Mongodb dashboard to make it dynamic and real

time

Yours sincerely,

Ltd

For Myntra Designs Pvt.

Nupur Nagpal Chief Human Resources Officer

Myntra – U72300KA2007PTC041799 Myntra Designs Private Limited Buildings

Alyssa, Begonia and Clover, Embassy Tech Village,

Outer Ring Road, Devarabeesanahalli Village, Varthur Hobli, Bengaluru – 560103, India Ph: 080 – 43540100 Website- <u>www.myntra.com</u>



2nd Nov 2022

TO WHOMSOEVER IT MAY CONCERN

Sub: Internship of Harshita at Amazon India ,Mumbai

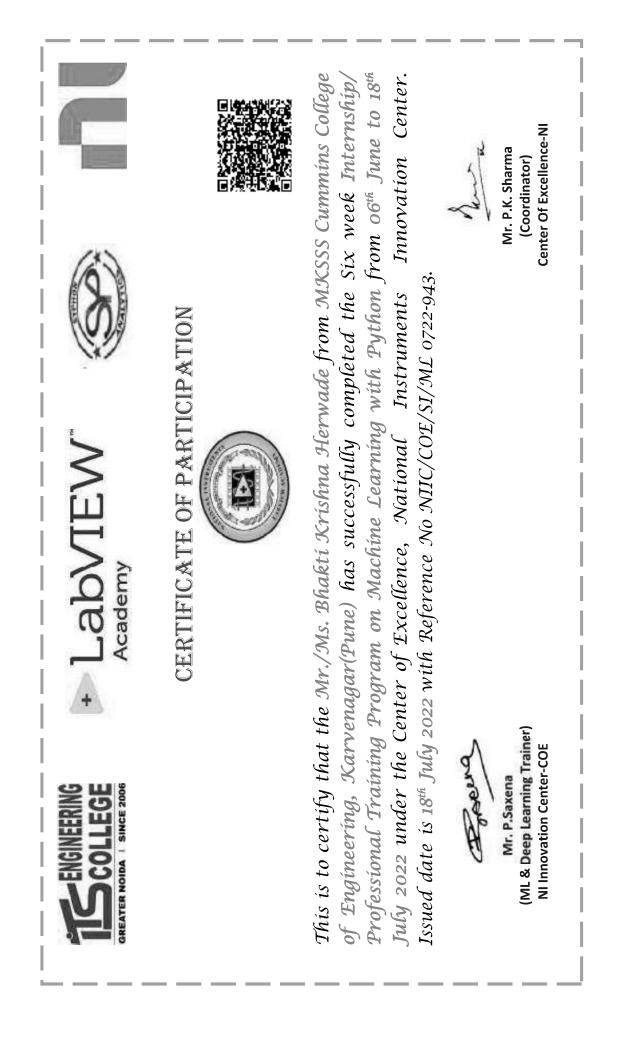
This is to certify that **Harshita** a student of **MKSSS Cummins College of Engineering for Women**, **Pune** has completed her internship with **Amazon Transportation Services Pvt. Ltd.** from **30-May-2022** to **29-Jul-2022**

The Project was titled **Territory Bad Scan Control**, **FDDS and EMD** and assigned by **Tapan V** team under the guidance of **Sheshraj Salvi**. She has successfully completed all the requirements of the project.

We wish her the very best in her future endeavors.

Signature Not Verified Digitally signed by DS AMAZON DEVELOPMENT CENTRE (INDIA) PRIVATE LIMITED(1) Date: 2022.11.02 17:56:21 IST Regiancie

For Amazon Transportation Services Pvt. Ltd.





August 27, 2022

To Whomsoever It May Concern

This is to certify that **Ms.Aditi Jadhav** has undergone her training with the **Advisory** division, **Mumbai** from **June 02, 2022** to **August 01, 2022**. She was associated with **Technology Consulting**.

She has exhibited a keen interest in learning and has a positive attitude. She is sincere and hard working. The efforts put in by herfor the project and the analysis of the subject carried out during the training was outstanding.

We wish Aditi Jadhav, the best in her future endeavors.

Regards,

For and on behalf of PricewaterhouseCoopers Services LLP

Aug 27 2022 1:07PM Shency John Director - Human Capital

PricewaterhouseCoopers Services LLP, 252, Veer Savarkar Marg, Shivaji Park, Dadar, Mumbai - 400 028 T: +91 (22) 66691500, F: +91 (22) 66547807 / 08, www.pwc.com/india

LLPIN - AAHonst Registered Office : 1st Floor, Suchets Bhowso, 11-A, Vietna Digambar Mary, New Debu - 110002



Industry

Date: August 19, 2022

Experience Certificate

This is to certify that **Ms. Surshree Jadhav** has worked with Siemens Industry Software (India) Pvt Ltd w.e.f. **June 1, 2022 till July 29, 2022**.

Her designation at the time of relieving was **Student Intern**.

We wish her success in all her future endeavors.

With Best Regards,

For Siemens Industry Software (India) Pvt. Ltd

Poteka Digitally signed by Potekar Lalita Pate: 2022.08.20 18:23:48 +05'30' Lalita Potekar Specialist – Human Resources

CC: Personnel File (Personnel Number: 645073)



TECHSTERR TECHNOLOGY SOLUTIONS PRIVATE LIMITED

Website: <u>www.techsterr.co.in</u> Email: Techsterr61@gmail.com Date: 09/08/2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that the student Miss. Aditi Jagdale

Of Electronic and Telecommunication Engineering Department of MKSSS's Cummins College Of Engineering for Women, Pune has satisfactorily completed her internship working on a" Automation of hydroponic farming project" during the period 8th June 2022 to 8th August 2022 under our guidance.



For Techsterr Technology Solutions Pvt. Ltd. R&D Department Prajakta Sudrik Co-founder Techsterr Technology Solutions Pvt. Ltd.

internship studio

OF INTERNSHIP

THIS IS TO CERTIFY

VAISHNAVI SUNIL JAGTAP

for completing 5 weeks of internship in Machine Learning with the title of **"YouTube adview prediction"**

at Internship Studio from 16th June to 21st July 2022. We wish you all the best for your future endeavours.

ISSUE DATE: 20/07/2022

Kashish kumar

KASHISH KUMAR Internship Mentor



ISMLI8839

Ariket Bibari

Founder & CEO





FarmDew QUALITY GUARANTEED

CERTIFICATE OF INTERNSHIP

This Certificate is Presented To:

VARSHA JAGTAP

For completing 5 weeks of internship in Web development at FARMDEW Private Limited from 15th of June to 30th of July 2022. We wish you all the best in your future endeavors.

ISSUE DATE: 20/07/2022

Farmdew Retail Private Limited

Director

SHUBHAM SHINDE Founder & CEO

hinda

SANDESH GHADAGE InternShip Mentor



Industry

Date: August 19, 2022

Experience Certificate

This is to certify that **Ms. Gargi Jain** has worked with Siemens Industry Software (India) Pvt Ltd w.e.f. **June 1, 2022 till July 29, 2022**.

Her designation at the time of relieving was **Student Intern**.

We wish her success in all her future endeavors.

With Best Regards,

For Siemens Industry Software (India) Pvt. Ltd

PotekarDigitally signed
by Potekar LalitaLalitaDate: 2022.08.20
18:21:46 +05'30'

Lalita Potekar Specialist – Human Resources

CC: Personnel File (Personnel Number: 645452)



-VOIS



CERTIFICATE

This is to certify that

Yukta Joshi

from Cummins college of Engineering pune has successfully completed

Virtual Micro-Internship under _VOIS for Tech University Engagement Program's Innovation Marathon 2022

to develop a project on "Face detection and recognition using KNN".

The internship is conducted from June 2022 to August 2022

Dr. Nilay Ranjan

Head Vodafone Idea Foundation & CSR Head Vodafone Idea Limited

Nagesh Singh Compos N

Director, Connecting Dreams Foundation भागत मगजाग, गढा वंजालय गढा अनुमधान एवं विकास संगठन आयुध्ध अनुसंधान एवं विकास संस्थापन डॉ. होनी माभा पथ, आयुध्ध डाकघर, पापाण, पुणे - 411021 मागत

Internet 3001 3015 Gerffent ISD 9001 2015 Certified



Service to Services

Government of India, Ministry of Defence Defence R & D Organisation (DRDO)

Armament R&D Estt. (ARDE) Dr. Homi Bhabha Road. Armament Post, Pashan, Pune - 411021 INDIA

marge / Website : www.drdo.gov.in

No. ARDE/35/2/iv/96-Tech Sr No. 42/2022

Aug 2022

CERTIFICATE

This is to certify that Ms. Jyoti Jangid B. Tech. (Electronics and Telecommunication Engineering) student from Cummins College of Engineering for Women. Pune has successfully completed internship on "Acquisition of IRNSS Signal Satellite" at ARDE as a part of curriculum during 01 Jun 2022 to 31 Jul 2022 under the guidance of Shri Vishwanath Sonna, Sc 'F'.

(E mail: vishwanath.sonna@gmail.com)

During her attachment to this Establishment, her attendance was regular and conduct exemplary.

We wish her very best in her future career.



(Alok Kanhai) Scientist 'F' For Director ARDE

Patfoci Technologies Inc. 2450 Marion Road SE, Suite # 1 Rochester, MN 55904-6219 USA

office: +1-507-312-2229 email: info@patfoci.com website: www.patfoci.com



September 10, 2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that the student **Miss. Amrit Prakash Kabir**, of Electronics and Telecommunication Engineering Department of MKSSS's Cummins College of Engineering for Women, Pune, interned with Patfoci Technologies Inc. during the period 15th June 2022 to 15th August 2022. She reviewed literature on electrocardiogram and phonocardiogram signal processing, implemented the Pan-Tompkins algorithm for peak detection in Python and collected sample electrocardiogram and phonocardiogram and phonocardiogram data using Labchart.

Please contact me with any questions regarding this certificate.

Sincerely,

Dr. Shivaram Poigai Arunachalam, Ph.D., D.B.A. Founder & CEO

cc: Patfoci records.





To, Dr. Prachi Mukherjee HOD, Electronics and Telecommunications Dept Cummins College of Engineering for Women Karvenagar, Pune - 411052 Vidya Munde-Müller Givetastic Technologies UG (haftungsbeschränkt)

Walderseestraße 7 30163 Hannover

08.08.2022

Subject: Completion letter for Internship Project

Dear Madam,

This letter is to confirm that the following project team has successfully completed the Internship project under the guidance of Mrs. Vidya Munde-Müller, CEO Givetastic

Project Duration: 05th June 2022 - 05. Aug 2022

- 1. 3180 Akshata Ashok Lalage
- 2. 3203 Anuja Limaye
- 3. 3115 Gayatri Belhekar
- 4. 3236 Prapti Pravin Kawthekar
- 5. 3852 PRARTHANA RANADE
- 6. 3256 Kalyani Vivek Taralekar
- 7. 3118 SHRUTI BHARAT
- 8. 3161 Sanika Kalloorkar
- 9. 3111 SAKSHI BADHAN
- 10. 3120 CH S SATHVIKA

Subject area of the project: Web Platform Development (Next.js, React, HTML, JS, CSS)

letter

Vidya Munde-Müller

NITUSS Solution

Certificate of Program Completion

This certifies that

Purva Kane

has successfully completed a

Mitacs Globalink Research Internship

effective December 2022.

Université du Québec en Outaouais Design of an artificial intelligencebased controller for a solar - Gatineau inverter Project Title: <u>University:</u> Host Host

Shamsodin Taheri

Professor:

Mitacs Globalink <u>nternship</u> Research

Globalink Research Internships are 12 weeks in duration and interns are required to work 40 hours per week.

Hill Antrata

Vice President, Programs **Gail Bowkett**



Industry

Date: August 22, 2022

Experience Certificate

This is to certify that **Mr. Arya Kaujalgi** has worked with Siemens Industry Software (India) Pvt Ltd w.e.f. **June 01, 2022 till August 01, 2022**.

His designation at the time of relieving was **Student Intern**.

We wish him success in all his future endeavors.

With Best Regards,

For Siemens Industry Software (India) Pvt. Ltd

Poteka Digitally signed by Potekar Lalita r Lalita Date: 2022.08.23 11:18:46 +05'30'

Lalita Potekar Specialist – Human Resources

CC: Personnel File (Personnel Number : 644863)

Restricted Siemens Industry Software (India) Pvt. Ltd.

Endress+Hauser

People for Process Automation

Endress (Hauser InfaServe (India) Private Limited M-174 / 175. MIDC, Walaj, Aurungabol - 431336. Maharashtra, India

Ms. Akanksha Milind Kharkar Cummins College of Engineering for Women, Pune, Maharashtra, Mobile: 8669832074 Contact Manoj Patil Business Applications Phone +91 240 2563673 Cell phone +91 9850826191 manoj.patil@endress.com

Aurangabad, July 29, 2022

Internship Certificate

This is to certify that Ms. Akanksha Milind Kharkar has completed the internship program with Endress+Hauser InfoServe (India) Pvt. Ltd. From 08th Jun 2022 to 29th Jul 2022

During the internship period she got exposure & understanding of following topics

- SAP ERP system and architecture
- Robotic Process Automation
- Digital WorkPlace tools
- First Answer HD Ticket monitoring system

She could demonstrate entire quotation to cash process in SAP test system which is good achievement for her

During the internship she also demonstrated good design skills with a self-motivated attitude to learn new things. She showed keen interest in learning and helping many activities.

Her performance exceeded expectations

I take this opportunity to thank Akanksha and wish her all the best for future endeavors

Yours Truly

Manoj Patil



Endress-Hauser InfeServe (India) Private Limited M- 174 / 175, MIDC, Walaj Aurorgatad - 411136, Mahanshitra, India Phone +91.240.2563.600 Fax +91.240.2555.279 indo-shis@endress.com www.infoserer.mittess.com

Scanned by TapScanner



HR-SSC/29-08-2022/333419

29 August 2022

To Whom It May Concern,

This is to certify that **Ms. Shivani Khilari**, student of "**Cummins Women's College**, **Pune**" has successfully completed her internship in "**Basics of ISP operations covering ILL**, **GVPN**, **TX services**" under the guidance of **Ms. Jyoti Vikrant Kadam** at **Tata Communications Limited** from **08 June 2022 to 08 August 2022** by working at our facility at **Pune-Dighi**.

She was found to be sincere and hardworking during her tenure.

We wish her success in all her future endeavours.

The above information is correct as per our company records as on the date of this letter issued. For any questions, please contact us at AskHR@tatacommunications.com

For Tata Communications Limited,

Vailhar Kaul

Warm Regards, Vaibhav Kaul General Manager Note: This is an electronically signed document

Tata Communications - Confidential

TATA COMMUNICATIONS

Tata Communications Limited Pune Alandi Road, Dighi, Pune 411 015 India. Tel: +91 20 6615 3333 Fax: +91 20 6615 3309 Regd. Office: VSB Mahatma Gandhi Road, Fort, Mumbai 400 001 India. Tel: +91 22 6657 8765 Fax: +91 22 6639 5162 email: askhr@tatacommunications.com CIN no. : L64200MH1986PLC039266 website: www.tatacommunications.com



TO WHOMSOVER IT MAY CONCERN

This is to certify that **Miss Tanaya Kondejkar**, who is pursuing a **B.E. (majoring in Electronics and Telecommunication)** from **Cummins College of Engineering, Pune**, has successfully completed **8 weeks** long internship (**from 01**st **June 2022 to 31st July 2022**) with our organisation.

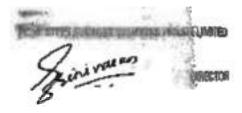
Tanaya Kondejkar's job responsibility as an intern at Right Steps Consultancy involved the following tasks:

- Research Work
 - a. Research on applying CNN techniques to sonography images.
 - b. Use of deep learning techniques to identify feature set useful for machine learning based prediction/detection algorithms.
 - Researched multiple image quality assessment algorithms to identify the best approach (BRISQUE) to determine suitability of sonography images before applying deep learning algorithms.
- Project: Breast Cancer Detection Algorithm
 - a. Developed a machine learning algorithm for identification of benign and Malignant tumour.
 - b. Demonstrated excellent grasp of Exploratory Data Analysis and visualisation-based feature selection techniques
 - c. Demonstrated good understanding of Principal Component Analysis techniques for dimensionality reduction
 - d. Demonstrated deep understanding of classification algorithms like Random Forest and kNN.

During the period of her internship program with us she was found to be sincere, proactive, hardworking and inquisitive. We wish her every success in her life and career.

Regards,

For Right Steps Business Solutions Private. Ltd.



Swati Srinivasan Founder & CEO

M/S MILIND RAMCHANDRA RAJWADE

7 13, Sinhgad Road, P. Cast S. No. 39, H.No.2/91, Manikbaug Industries. Wadgaon Budruk, Pune - 411051 Cell : 9822248278, Email: milindrrajwade@gmail.com

Date:1 August 2022.

Ref

To Whomsoever it may concern

This is to certify that Miss. Vasavi Abhay Kotpalliwar, C.No.C22020112206, Roll No:3273 studying at MKSSS's Cummins College of Engineering for Women, Pune has successfully completed her internship at Milind Ramchandra Rajwade, Pune, from 1 June 2022 to 30 July 2022.

She has worked on a project titled Wifi based temperature and humidity detector. As part of the project, she has completed preliminary objectives of the project.

During her internship, we found her sincere, active and component in executing all assigned tasks and services were found to be satisfactory.

We wish her all the best for her opcoming career.

Regards.

Millind Ramchandra Rajwade*

Proprietor





HR-SSC/29-08-2022/333419

29 August 2022

To Whom It May Concern,

This is to certify that **Ms. Tejaswi Mangalapelly**, student of "**Cummins Women's College**, **Pune**" has successfully completed her internship in "**Basics of ISP operations covering ILL**, **GVPN, TX services**" under the guidance of **Ms. Jyoti Vikrant Kadam** at **Tata Communications Limited** from **08 June 2022 to 08 August 2022** by working at our facility at **Pune-Dighi**.

She was found to be sincere and hardworking during her tenure.

We wish her success in all her future endeavours.

The above information is correct as per our company records as on the date of this letter issued. For any questions, please contact us at AskHR@tatacommunications.com

For Tata Communications Limited,

Vailhar Kaul

Warm Regards, Vaibhav Kaul General Manager Note: This is an electronically signed document

Tata Communications - Confidential

TATA COMMUNICATIONS

Tata Communications Limited Pune Alandi Road, Dighi, Pune 411 015 India. Tel: +91 20 6615 3333 Fax: +91 20 6615 3309 Regd. Office: VSB Mahatma Gandhi Road, Fort, Mumbai 400 001 India. Tel: +91 22 6657 8765 Fax: +91 22 6639 5162 email: askhr@tatacommunications.com CIN no. : L64200MH1986PLC039266 website: www.tatacommunications.com



Certificate of Completion

We proudly award

Ms Vaishnavi Padhar

for completing 2 months internship (01-June-2022 to 31-July-2022) at House of Aadyaa and handling it all like a champ!

We wish you well in your future endeavours!

Awarded on the 1st August 2022

Sayalee Marathe

FOUNDER

Jaydeep Hingne

CO-FOUNDER

30 Aadyaa Originals Private Limted

Advance Design Solutions

Shop no.8, Pooja Palace, ShivtejNagar, Plot No.5, Chinchwad, Pune 411019

Email : advdesignsoln2019@gmail.com

Ref No:-010

Date:-31/07/2022

Experience Certificate

This is to certify that Ms. Ruchi Nitin Bogawat has worked with Advance Design Solutions w.e.f. June 6, 2022 till July 31, 2022.

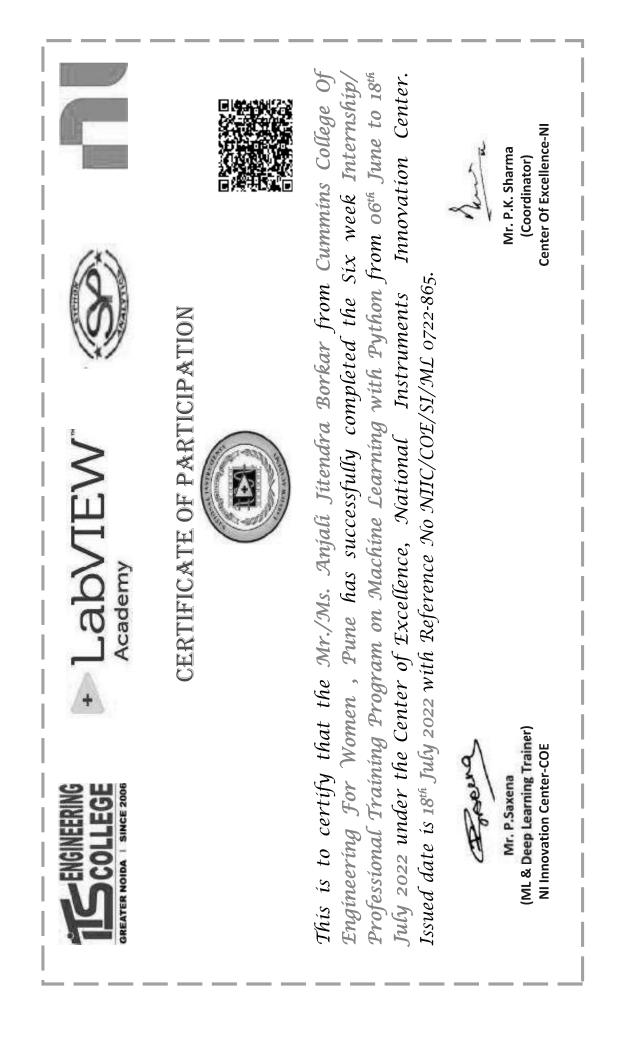
Her designation at the time of relieving was

Student Intern.

We wish her success in all her future endeavors.

With Best Regards, Atul K.Bora Director Advance Design Solutions





Certificate of Completion	Retriction Program
This is to certify that	
Rachana Deepak Chaugule of CUMMINS College of Engineering for Women, Pune	n, Pune
successfully completed	
Internship Program for Engineering Students in Robotics and Automation	Students
President	Chris Bastianpillai Program Director





CHANDRA ELECTRICAL AND ELECTRONICS

Panarea Building, 753/754 MIDC-Bhocari, Pone - 411026

Electronic Manufacturing Service



CERTIFICATE

This is to certify that Miss. Harsha Sunil Shendge, is a student of MKSSS's Cummins College of Engineering for Women Pune, has undergone her internship training of 2 months from 6th June 2022 to 6th August 2022 in Chandra Electricals & Electronics, Pune. During her tenure she was working in SMT, Production, Testing, Inwards QA and Electronic Fault Finding. She is polite and honest to her work.

We wish her success in all her future endeavors.

or Changes Electricain o citic

Hiranshighlerti Sycorletor

Himanshu P. Modi

(Authorized Signatory)



Ref: Cummins/PSBU/CIL/ENGG/ Date- 06-11-2022

CERTIFICATE

This is to certify that **Rucha Jagtap** from Cummins College of Engineering, Pune

has successfully completed her Project in Cummins Technologies India Pvt

Limited - Power Systems Business Unit.

she has done her project with us from 06th Jun.2022 to 06th Aug.2022

The topic of her project was- **To develop system architect diagram for PSBU advance** control system.

Her performance was found satisfactory during the period.

We wish her all the best for all her future endeavors.

For Cummins Technologies India Pvt Limited

Soumitra Mehrotra General Manager-HR.

Cummins Technical Centre India Division of Cummins Technologies India Private Limited Survey No. 31(pt), 32(pt), 33(pt) Dhanukar Colony, Kothrud Pune 411 038 Maharashtra, India Phone +91 20 2538 5435/ 2538 0240 Fax +91 20 2538 0125 Cumminsindia.com Cumminsindia.com Cuns: U29113PN1

Cummins Technologies India Private Limited, Cummins India Office Campus Tower A, 2nd, 4th and 8th Floor,Sr. No. 21, Balewadi, Pune – 411 045 CIN: U29113PN1994FTC139153



To, Dr. Prachi Mukherjee HOD, Electronics and Telecommunications Dept Cummins College of Engineering for Women Karvenagar, Pune - 411052 Vidya Munde-Müller Givetastic Technologies UG (haftungsbeschränkt)

Walderseestraße 7 30163 Hannover

08.08.2022

Subject: Completion letter for Internship Project

Dear Madam,

This letter is to confirm that the following project team has successfully completed the Internship project under the guidance of Mrs. Vidya Munde-Müller, CEO Givetastic

Project Duration: 05th June 2022 - 05. Aug 2022

- 1. 3180 Akshata Ashok Lalage
- 2. 3203 Anuja Limaye
- 3. 3115 Gayatri Belhekar
- 4. 3236 Prapti Pravin Kawthekar
- 5. 3852 PRARTHANA RANADE
- 6. 3256 Kalyani Vivek Taralekar
- 7. 3118 SHRUTI BHARAT
- 8. 3161 Sanika Kalloorkar
- 9. 3111 SAKSHI BADHAN
- 10. 3120 CH S SATHVIKA

Subject area of the project: Web Platform Development (Next.js, React, HTML, JS, CSS)

letter

Vidya Munde-Müller



_V01S



CERTIFICATE **OF INTERNSHIP**

This is to certify that

Purva Barge

from Cummins College of Engineering for Women, Pune has successfully completed

Virtual Micro-Internship under _VOIS for Tech University Engagement Program's Innovation Marathon 2022

to develop a project on "Fitness Management Application".

The internship is conducted from July 2022 to September 2022

Compos

Director **Connecting Dreams Foundation**

Nagesh Singh

Head Vodafone Idea Foundation & CSR Head Vodafone Idea Limited Dr. Nilay Ranjan





To, Dr. Prachi Mukherjee HOD, Electronics and Telecommunications Dept Cummins College of Engineering for Women Karvenagar, Pune - 411052 Vidya Munde-Müller Givetastic Technologies UG (haftungsbeschränkt)

Walderseestraße 7 30163 Hannover

08.08.2022

Subject: Completion letter for Internship Project

Dear Madam,

This letter is to confirm that the following project team has successfully completed the Internship project under the guidance of Mrs. Vidya Munde-Müller, CEO Givetastic

Project Duration: 05th June 2022 - 05. Aug 2022

- 1. 3180 Akshata Ashok Lalage
- 2. 3203 Anuja Limaye
- 3. 3115 Gayatri Belhekar
- 4. 3236 Prapti Pravin Kawthekar
- 5. 3852 PRARTHANA RANADE
- 6. 3256 Kalyani Vivek Taralekar
- 7. 3118 SHRUTI BHARAT
- 8. 3161 Sanika Kalloorkar
- 9. 3111 SAKSHI BADHAN
- 10. 3120 CH S SATHVIKA

Subject area of the project: Web Platform Development (Next.js, React, HTML, JS, CSS)

letter

Vidya Munde-Müller







_V0IS



CERTIFICATE of internship

This is to certify that

Shraddha Magdum

From Cummins College of Engineering for Women, Pune has successfully completed

Virtual Micro-Internship under _VOIS for TechUniversity Engagement Program's Innovation Marathon 2022

to develop a project on "Credit Card Default Prediction".

The internship is conducted from June 2022 to August 2022

Dr Nilay Ranjan

Head Vodafone Idea Foundation & CSR Head Vodafone Idea Limited

Nagesh Singh Chapao N

Director Connecting Dreams Foundation



_V01S



CERTIFICATE

This is to certify that

Shweta Magdum

From Cummins College of Engineering for Women, Pune has successfully completed

Virtual Micro-Internship under _VOIS for TechUniversity Engagement Program's Innovation Marathon 2022

to develop a project on "Credit Card Default Prediction".

The internship is conducted from June 2022 to August 2022

Dr Nilay Ranjan

Head Vodafone Idea Foundation & CSR Head Vodafone Idea Limited

Nagesh Singh Chapao N

Director Connecting Dreams Foundation



Industry

Date: July 29, 2022

Experience Certificate

This is to certify that **Ms. Mayuri Mahajan** has worked with Siemens Industry Software (India) Pvt Ltd w.e.f. **June 1, 2022 till July 29, 2022**.

Her designation at the time of relieving was **Student Intern**.

We wish her success in all her future endeavors.

With Best Regards,

For Siemens Industry Software (India) Pvt. Ltd

PotekarDigitally signed
by Potekar LalitaLalitaDate: 2022.07.29
12:34:25 +05'30'

Lalita Potekar Specialist – Human Resources

CC: Personnel File (Personnel Number: 644939)

Restricted Siemens Industry Software (India) Pvt. Ltd.





July 15, 2022

EXPERIENCE CERTIFICATE

To Whom It May Concern

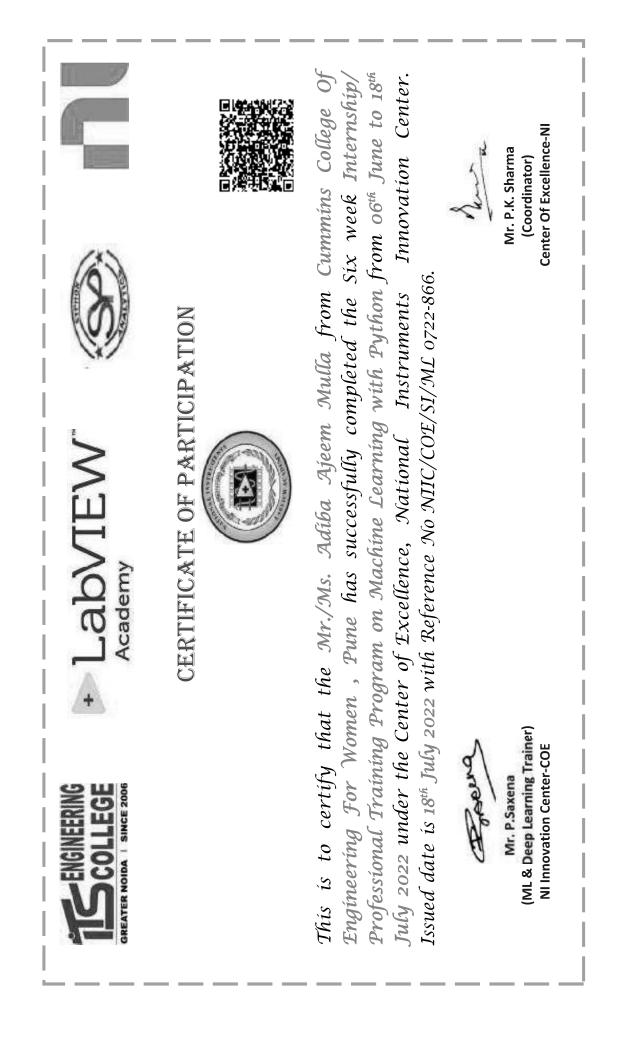
This is to certify that **Manasvi Mattoo (EE ID 132148)** has done internship at Mastercard Technology Private Limited from May 16, 2022 to July 15, 2022 on **Operations and Technology** under the guidance of **Kapil Banwari**.

We take this opportunity to thank and wish all the best for future endeavors.

Yours faithfully,

For: Mastercard Technology Private Limited <u>People_services@mastercard.com</u> Global Business Services Centre - HR Services

Mastercard Technology Private Limited Business Bay, 3rd Floor, Wing 1, Tower A, Survey No. 103, Opp Poona Club Golf Course, Airport Road, Yerwada, Pune-411006



CIN U72900PN2016FTC166292

Regd. Off. 911 - 1, Plot No. 16, Ganesh Colony, Radhanagari Road, Kolhapur. Maharashtra 416 012 Ph.: 0231 - 2644631/2645631 Email sochingavali@imaginecomps.com, imspl@imaginecomps.com Mobile : 9822090631 / 9822655197



CERTIFICATE OF INTERNSHIP

This is to certify that Ms. Sharvari Avadhut Mungale, student of MKSSS'S CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE has successfully completed the internship programme from **08th June 2022 to 31st July 2022** in our organization Imagine Multi Services Pvt. Ltd. at Kolhapur.

Signature of Authorized

avau

Imagine Multi Services Pvt. Ltd. Mr. Sachin B Gavali (Director)



KAVIN INDIA PVT LTD www.kluvioindia.com



Date: 09th August, 2022 Candidate Name: Bhairavi Naik College Name: Cummins College, Pune Department: Electronic and Telecommunication, 6th Sem. City: Pune

Subject: Internship Completion Certificate

Dear Bhairavi,

This is to certify and confirm that your IT internship with Kavin India Pvt Ltd on "Cloud CRM: Salesforce" had been completed successfully.

We are glad to inform you that your performance during this internship was found good. Your Internship duration was of 2 months and conducted from 07th June, 2022 to 08th August, 2022. We wish you good luck for your future endeavors.



Technýcal Head Kavin India Pvt Ltd (Authorized Signatory)

CORPORATE OFFICE

1414, Hunters Glan Dr. Pleinsboro New Jenser - 08536, USA Tel: +1-443-878-2147, foz: +1-443-548-0904 SLOBAL DEVELOPMENT CENTER

#21, Bontere, Denixe Avenue, Manningsile, Sandton, Johannesburg - 2169 SA, Tel: +27-730-606939 Tal: +91-712-5464622, Fax: +91-712-2248422 BRANCH OFFICE Ground Fleer, Amend Poloce - 11, Opp. Vesant Dede Polytechnic, Nandamon, Nagpur - 09, Tel: 712 - 2712012, Cell: 92256 70888

#P.5/A,102/201, Akonksha, IPTS Road, Laxmi Nagar, Nagpur - 440022, INDIA

+ USA + SA + INDIA

HEAD OFFICE



www.checkbertik.www.claw no.checkbertik.www.claw.com

IT INTERNSHIP - CERTIFICATE OF COMPLETION

To Whomsoever It May Concern

Date: 09/08/2022 Place: Punc

This is to certify and confirm that Ms. Bhairavi Naik [Intern], student of 6th Sen. Electronics and Telecommunication, Cummins College, Pune has done an Internship work in IT-NetworkZ Infosystems Pvt. Ltd., Nagpur (Kavin's group of company) and has completed it in accordance with the approved modules and specifications based on "Application Development using Java", under the organization's guidance and supervision.

Her Internship duration was 2 months and conducted from 07th June, 2022 to 08th August, 2022. During this Internship, her performance was found good.

We wish her good luck for her future endeavors.

Project Nead

IT-NetworkZ (Authorized Signatory)



IT-NetworkZ (Authorized Signatory)

EDBROMATE OFFICE 1413 Holling Carl St Providence Trees Inner (1403), (14 St - 1.40) H to 1.40 Has the strategy of the EUDBROM INFORMATION CONTROL EUDBROM INFORMATION CONTROL TO ST CONTROL OF THE ST CONTROL OF THE ST CONTROL TO ST CONTROL OF THE ST CONTROL OF HEAD OFFICE AF 5 wild 2011 Standards, STEL band, Laws, Magan, Magan, Magan, Magan, Magan, Ser, Chi, M.2 Marchald, Marchald Strip, 2245122 MARANES OFFICE

July 2022 SCUIMOEOF IL. ILille Chris Bastianpillai Program Director Internship Program Internship Program for Engineering Students Siddhi Nawath Nalawade of CUMMINS College of Engineering for Women, Pune successfully completed in Robotics and Automation This is to certify that between 1 June and 31 July, 2022 **Certificate of Completion** Prakalpa Bastianpillai Z President



_VOIS



CERTIFICATE of internship

This is to certify that

Nandini Singh

from Cummins College of Engineering for Women, Pune has successfully completed

Virtual Micro-Internship under _VOIS for Tech University Engagement Program's Innovation Marathon 2022

to develop a project on "Automated bank-cheque data verification".

The internship is conducted from June 2022 to August 2022

Dr. Nilay Ranjan

Head Vodafone Idea Foundation & CSR Head Vodafone Idea Limited

Nagesh Singh Compos N

Director, Connecting Dreams Foundation

SAP Labs India Private Limited CIN: U72200KA1995PTC018484 8th floor, RMZ Ecoworld, Plot C1, 8A Campus, Sarjapur-Marathahalli Outer Ring road, Bangalore 560103 Tel No. +91-80-66411400 Fax No. +91-80-4151 2576 http://www.sap.com



21.07.2022

TO WHOM IT MAY CONCERN

Dear Sir/Madam

This is to certify that Ms. Rutuja Ner, student of MKSSS's Cummins College of Engineering for Women, Pune has successfully completed her project titled Cloud Monitoring System using Prometheus and Grafana at SAP Labs India Pvt. Ltd., Bangalore under the guidance of Mr. Senthilnathan K., Development Manager.

Documentation of the application in the project report is not feasible due to its confidential nature. The interns are not allowed to share the application outside the workplace.

This project is in partial fulfillment of the requirements for the award of the degree B.Tech for the academic year 2022-2023. The duration of the project was from 30th May 2022 to 29th July 2022.

For SAP Labs India Pvt. Ltd.,

Yours faithfully

Salit

Sabish Kovath Bhaskar Manager, Local HR Services India

Confidential



Wells Fargo International Solutions Private Ltd (Formerly Wells Fargo EGS (India) Private Ltd) Wells Fargo Center, Embassy Tech Village (SEZ), Devarabeesanahalli, Outer Ring Road, Varthur Hobli, Bengaluru -560103, India 91 80 4397 4000, 91 80 4397 4100 (Fax)

August 05, 2022

Intern Name: Mrunal Nilgilwar

Intern ID: 2084030

Re: Certificate of completion of Internship

Dear Mrunal,

This is to certify that you have successfully completed the internship and project assigned to you during the period starting from Jun 06, 2022 till August 05, 2022 ("Internship Duration"). Pursuant to completion of Internship Duration, we hereby relieve you from duties assigned to you, except those of confidentiality obligations agreed during your Internship Duration, after close of working hours of LWD.

We request you to kindly note that our commitment to relieve you is subject to you completing the exit formalities per the company policy.

We wish you the very best in your career.

Please contact Indiafinalsettlement@wellsfargo.com if you have any questions on the exit process.

Sincerely, For Wells Fargo International Solutions Private Ltd

Durgesh Nagarkatte Vice President – HR



Microsoft India (R&D) Pvt. Ltd. Microsoft Campus, Gachibowli, Hyderabad- 500032



Tel: +91-40-66930000 Fax: +91-40-66935593 http://www.microsoft.com/india

29-Jul-22

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Aditi Oak** from the Cummins College of Engineering For Women, Pune has successfully completed her Internship in the **"Cloud & Artificial Intelligence"** team under **Microsoft India (R&D) Pvt. Ltd, Hyderabad** from 6-Jun-22 to 29-Jul-22. She has completed the internship under the guidance of Naresh Bade (Nbade) and Anubhav Natani (Annatani).

We wish her all the best in her future endeavors.

Yours Sincerely, For Microsoft India (R&D) Pvt. Ltd

Ira Gupta SR GEO HR DIRECTOR

Signature of Candidate

Microsoft India (R&D) Pvt. Ltd.

Registered Office: 807, New Delhi House, Barakhamba Road, New Delhi-110001. CIN: U72200DL1998PTC093824



July 15, 2022

EXPERIENCE CERTIFICATE

To Whom It May Concern

This is to certify that **Ojaswita Sharma (EE ID 132146)** has done internship at Mastercard Technology Private Limited from May 16, 2022 to July 15, 2022 on **Operations and Technology** under the guidance of **Richa Malewar**.

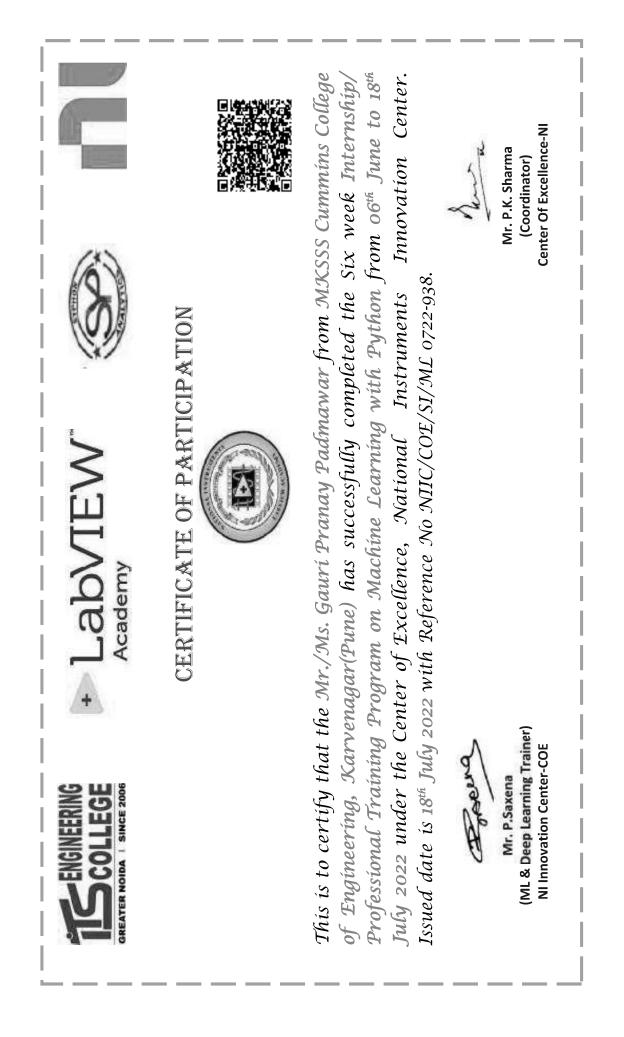
We take this opportunity to thank and wish all the best for future endeavors.

Yours faithfully,



For: Mastercard Technology Private Limited <u>People_services@mastercard.com</u> Global Business Services Centre - HR Services

Mastercard Technology Private Limited Business Bay, 3rd Floor, Wing 1, Tower A, Survey No. 103, Opp Poona Club Golf Course, Airport Road, Yerwada, Pune-411006





TECHSTERR TECHNOLOGY SOLUTIONS PRIVATE LIMITED

Website: <u>www.techsterr.co.in</u> Email: Techsterr61@gmail.com

Date: 09/08/2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that the student Miss. Nikita Pardeshi

Of Electronic and Telecommunication Engineering Department of MKSSS's Cummins College Of Engineering for Women, Pune has satisfactorily completed her internship working on a" Automation of hydroponic farming project" during the period 8th June 2022 to 8th August 2022 under our guidance.



For Techsterr Technology Solutions Pvt. Ltd.

R&D Department

Prajakta Sudrik

Co-founder Techsterr Technology Solutions Pvt. Ltd.

Office: Surya Towers , Door no. 1-7-4 to 19. Flat –B1, 4th Floor, Sardar Patel Road, Kalsiguda,Secunderabad,Telangana-500003 Microsoft India (R&D) Pvt. Ltd Prestige Ferns Galaxy Survey No, 7/1, 7/2 & 8/1A Ambalipura Village, Varthur Hobli Outer Ring Road, Bengaluru 560103

Microsoft

Tel + 91-80-61772000 http://www.microsoft.com/india

29-Jul-22

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Maitreyee Parkhi** from the Cummins College of Engineering For Women, Pune has successfully completed her Internship in the **"Cloud & Artificial Intelligence"** team under **Microsoft India (R&D) Pvt. Ltd, Bengaluru** from 6-Jun-22 to 29-Jul-22. She has completed the internship under the guidance of Nitin Dubey (Nitindubey) and Rakesh Khanduja (Rakesh.Khanduja).

We wish her all the best in her future endeavors.

Yours Sincerely, For Microsoft India (R&D) Pvt. Ltd

Ira Gupta SR GEO HR DIRECTOR

Signature of Candidate

Microsoft India (R&D) Pvt. Ltd.

Registered Office: 807, New Delhi House, Barakhamba Road, New Delhi-110001. CIN: U72200DL1998PTC093824



August 27, 2022

To Whomsoever It May Concern

This is to certify that **Ms.Prachi Parvate** has undergone her training with the **Advisory** division, **Mumbai** from **June 02, 2022** to **August 01, 2022**. She was associated with **GDC**.

She has exhibited a keen interest in learning and has a positive attitude. She is sincere and hard working. The efforts put in by herfor the project and the analysis of the subject carried out during the training was outstanding.

We wish Prachi Parvate, the best in her future endeavors.

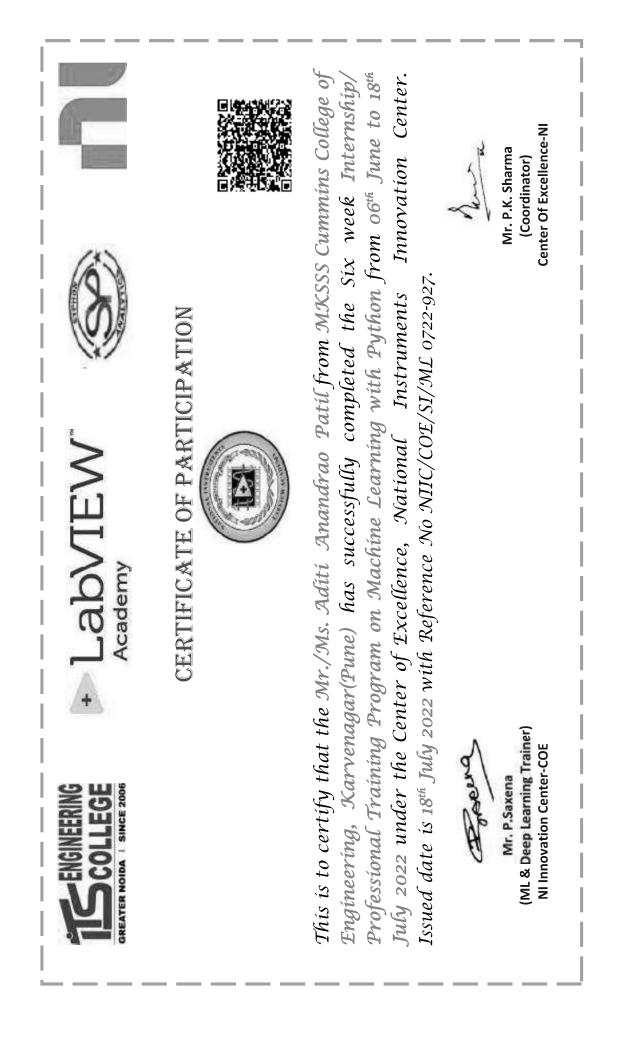
Regards,

For and on behalf of PricewaterhouseCoopers Services LLP

Aug 27 2022 1:10PM Shency John Director - Human Capital

PricewaterhouseCoopers Services LLP, 252, Veer Savarkar Marg, Shivaji Park, Dadar, Mumbai - 400 028 T: +91 (22) 66691500, F: +91 (22) 66547807 / 08, www.pwc.com/india

LLPIN - AAHonst Registered Office : 1st Floor, Suchets Bhowso, 11-A, Vietna Digambar Mary, New Debu - 110002



Prakalpa Bastianpillai President			Q,		Certificate
	Internship Program for Engineering Students in Robotics and Automation	successfully completed	Gauri Deepak Patil of CUMMINS College of Engineering for Women, Pune	This is to certify that	Certificate of Completion
Chris Bastianpillai Program Director	ng Students n	ğ	men, Pune		

Microsoft India (R&D) Pvt. Ltd Prestige Ferns Galaxy Survey No, 7/1, 7/2 & 8/1A Ambalipura Village, Varthur Hobli Outer Ring Road, Bengaluru 560103



Tel + 91-80-61772000 http://www.microsoft.com/india

29-Jul-22

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ishwari Patil** from the Cummins College of Engineering For Women, Pune has successfully completed her Internship in the **"Cloud & Artificial Intelligence"** team under **Microsoft India (R&D) Pvt. Ltd, Bengaluru** from 6-Jun-22 to 29-Jul-22. She has completed the internship under the guidance of Raghavendra Hegde (Rahegd) and Saravanan Thanu (Saravanan.Thanu).

We wish her all the best in her future endeavors.

Yours Sincerely, For Microsoft India (R&D) Pvt. Ltd

Ira Gupta SR GEO HR DIRECTOR

Signature of Candidate

Microsoft India (R&D) Pvt. Ltd.

Registered Office: 807, New Delhi House, Barakhamba Road, New Delhi-110001. CIN: U72200DL1998PTC093824

DYNAMIC CRANE ENGINEERS PVT. LTD.

CIN No. U29150PN2005PTC020561

Dynamic House, Soba Puram, Warje, Pune, India 411058 +91 89750 02337 | info@dgoc.in | www.dgoc.in



6th Aug 2022 Ref. No.: 18/22-23/034

To whomsoever it may concern

Dynamic Cranes Pvt. Ltd certifies that Kinjal Patil successfully completed the internship program from 04th Jun to 03rd Aug 2022 at our corporate office in R&D Department.

During this time, following tasks were assigned to her:

1) To understand the functioning of Open CPU & functionalities of IoT.

To understand & learn programming concepts to handle Open CPU (M66).

3) To generate a complete project report using schematics and related documentation.

She gained and applied the knowledge of ARDUINO IDE Software during the internship,

Kinjal Patil displayed professional traits during her internship period and managed to complete all assigned work as requested. She was hardworking, dedicated and committed. It was a pleasure having her with us in this short period.

I wish all the success in her future endeavours.

For Dynamic Crane Engineers Pvt. Ltd.



(Director)

Workshop : Gat No. 1163, Pirangut, Pune, India 412108 Crane Safety Systems | Manlift Rental | Crane Spares | Training

Certificate of Completion	Internship Program
This is to certify that	
Prajakta Santosh Patil of CUMMINS College of Engineering for Women, Pune	n, Pune
successfully completed	
Internship Program for Engineering Students in Robotics and Automation	Students
President	Chris Bastianpillai Program Director



Regd. Office: Wells Fargo Centre, Building 1A, Divyasree NSL SEZ, Survey No. 66/1, Raidurga Village, Serilingampalli, Hyderabad, India - 500032 91 40 4023 1000, 91 40 4023 1100 (Fax) CIN: U72200TG2006PTC051001

Wfindia.legal@wellsfargo.com

Wells Fargo International Solutions Private Ltd (Formerly Wells Fargo EGS (India) Private Ltd) Wells Fargo Center, Embassy Tech Village (SEZ), Devarabeesanahalli, Outer Ring Road, Varthur Hobli, Bengaluru -560103, India 91 80 4397 4000, 91 80 4397 4100 (Fax)

August 05, 2022

Intern Name: Sayali Patil

Intern ID: 2075267

Re: Certificate of completion of Internship

Dear Sayali,

This is to certify that you have successfully completed the internship and project assigned to you during the period starting from Jun 06, 2022 till August 05, 2022 ("Internship Duration"). Pursuant to completion of Internship Duration, we hereby relieve you from duties assigned to you, except those of confidentiality obligations agreed during your Internship Duration, after close of working hours of LWD.

We request you to kindly note that our commitment to relieve you is subject to you completing the exit formalities per the company policy.

We wish you the very best in your career.

Please contact Indiafinalsettlement@wellsfargo.com if you have any questions on the exit process.

Sincerely, For Wells Fargo International Solutions Private Ltd

Durgesh Nagarkatte Vice President – HR

2Cm



July 15, 2022

EXPERIENCE CERTIFICATE

To Whom It May Concern

This is to certify that **Gayatri Patki (EE ID 132147)** has done internship at Mastercard Technology Private Limited from May 16, 2022 to July 15, 2022 on **Operations and Technology** under the guidance of **Archit Kaushal**.

We take this opportunity to thank and wish all the best for future endeavors.

Yours faithfully,



For: Mastercard Technology Private Limited <u>People_services@mastercard.com</u> Global Business Services Centre - HR Services

Mastercard Technology Private Limited Business Bay, 3rd Floor, Wing 1, Tower A, Survey No. 103, Opp Poona Club Golf Course, Airport Road, Yerwada, Pune-411006

Deutsche Bank Group Deutsche India



Deutsche India Pvt. Ltd. Business Bay, Wing 2 Tower A, 6th, 7th, 8th floor Off Airport Road, Yerwada Pune – 411 006

August 26, 2022

Tel +91 (20) 71296000

SERVICE CERTIFICATE

This is to certify that Ms. Poonam Ankushrao Pawar was employed with us from May 30, 2022 to July 22, 2022 as an Intern in the IS Shared Servces PN Department of our Bank in Pune. Internship was successfully completed to enable her to develop her practical skills and provide industry exposure.

We wish Ms. Poonam Ankushrao Pawar all success in her future endeavors.

Yours faithfully, Deutsche India Private Limited

Authorised Signatory Human Resources

Authorised Signatory Human Resources



_V01S



CERTIFICATE **OF INTERNSHIP**

This is to certify that

Radha Pawar

From Nitte Meenakshi Institute of Technology, Bengaluru has successfully completed

Virtual Micro-Internship under _VOIS for TechUniversity Engagement Program's Innovation Marathon 2022

to develop a project on "YouTube Transcript summarization using NLP".

The internship is conducted from June 2022 to August 2022

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Dr. Nilay Ranjan

Head Vodafone Idea Foundation & CSR Head Vodafone Idea Limited

Nagesh Singh

Canado Z

Director, **Connecting Dreams Foundation**



To, Dr. Prachi Mukherjee HOD, Electronics and Telecommunications Dept Cummins College of Engineering for Women Karvenagar, Pune - 411052 Vidya Munde-Müller Givetastic Technologies UG (haftungsbeschränkt)

Walderseestraße 7 30163 Hannover

08.08.2022

Subject: Completion letter for Internship Project

Dear Madam,

This letter is to confirm that the following project team has successfully completed the Internship project under the guidance of Mrs. Vidya Munde-Müller, CEO Givetastic

Project Duration: 05th June 2022 - 05. Aug 2022

- 1. 3180 Akshata Ashok Lalage
- 2. 3203 Anuja Limaye
- 3. 3115 Gayatri Belhekar
- 4. 3236 Prapti Pravin Kawthekar
- 5. 3852 PRARTHANA RANADE
- 6. 3256 Kalyani Vivek Taralekar
- 7. 3118 SHRUTI BHARAT
- 8. 3161 Sanika Kalloorkar
- 9. 3111 SAKSHI BADHAN
- 10. 3120 CH S SATHVIKA

Subject area of the project: Web Platform Development (Next.js, React, HTML, JS, CSS)

letter

Vidya Munde-Müller

SAMSUNG

24

Samsung R&D Institute India - Bangalore Pvt. Ltd.

Aug 05, 2022

Experience Certificate

This is to certify that Ms. Apoorva Purohit (Empl ID: 22515211) has interned with Samsung R&D Institute India – Bangalore Pvt. Ltd., from Jun 06, 2022 to Aug 05, 2022.

For Samsung R & D Institute - Bangalore Pvt. Ltd.

Chetan Swarup Purohit Director Human Resources

Segistered Office : tl 2870, Phoenix Building, Sagmane Constellation Business Park, Outer Ring Soad, Doddanekundi Circle, Marathahali Post, Bangalere -560037 Tel : 91-80-6326 1000, Fax : 91-80-4661 3001, CN : U72200KA2004PTC036309



_VOIS



CERTIFICATE **OF INTERNSHIP**

This is to certify that

Mansi Raskar

from Cummins College of Engineering for Women, Pune has successfully completed

Virtual Micro-Internship under _VOIS for Tech University Engagement Program's Innovation Marathon 2022

to develop a project on "Fitness Management Application".

The internship is conducted from July 2022 to September 2022

Dr. Nilay Ranjan

Head Vodafone Idea Foundation & CSR Head Vodafone Idea Limited

Nagesh Singh

Compos

Director **Connecting Dreams Foundation**

ECUBE INTEGRATED SOLUTIONS (OPC) PVT LTD

To Whom It May Concern

This is to certify that Ms. Akanksha Dhananjay Salunkhe has completed 2 Month Internship with us from 15 Jun 2022 to 13 Aug 2022.

During this tenure she has undertaken various tasks including YOLO Algorithm on Open CV, Vehicle identification. She has worked with commitment and always shown enthusiasm to learn. We found her hard working, sincere and confident to her job.

She has always shown a keen interest in the field of networking, Hardware/Software Integration. We have been observing her growth closely and wish her good luck for her higher academics and success in her future ventures.



Regards, Pramod Sapakal Ecube Integrated solutions Pvt Ltd



July 15, 2022

EXPERIENCE CERTIFICATE

To Whom It May Concern

This is to certify that **Sandipta Sahoo (EE ID 131970)** has done internship at Mastercard Technology Private Limited from May 16, 2022 to July 15, 2022 on **Operations and Technology** under the guidance of **Archit Kaushal**.

We take this opportunity to thank and wish all the best for future endeavors.

Yours faithfully,



For: Mastercard Technology Private Limited <u>People_services@mastercard.com</u> Global Business Services Centre - HR Services

Mastercard Technology Private Limited Business Bay, 3rd Floor, Wing 1, Tower A, Survey No. 103, Opp Poona Club Golf Course, Airport Road, Yerwada, Pune-411006





CERTIFICATE of internship

This is to certify that

Sapna Shekhar

from Cummins College of Engineering for Women, Pune has successfully completed

Virtual Micro-Internship under _VOIS for Tech University Engagement Program's Innovation Marathon 2022

to develop a project on "Automated bank-cheque data verification".

The internship is conducted from June 2022 to August 2022

Dr. Nilay Ranjan

Head Vodafone Idea Foundation & CSR Head Vodafone Idea Limited

Nagesh Singh Compos

Director, Connecting Dreams Foundation





-VOIS



CERTIFICATE of internship

This is to certify that

Rojina Shaikh

from Cummins College of Engineering for Women, Pune has successfully completed

Virtual Micro-Internship under _VOIS for Tech University Engagement Program's Innovation Marathon 2022

to develop a project on "Automated bank-cheque data verification".

The internship is conducted from June 2022 to August 2022

Dr. Nilay Ranjan

Head Vodafone Idea Foundation & CSR Head Vodafone Idea Limited

Nagesh Singh Compos

Director, Connecting Dreams Foundation



July 15, 2022

EXPERIENCE CERTIFICATE

To Whom It May Concern

This is to certify that **Fatma Bano Sheikh (EE ID 131978)** has done internship at Mastercard Technology Private Limited from May 16, 2022 to July 15, 2022 on **Operations and Technology** under the guidance of **Kiran Muddana**.

We take this opportunity to thank and wish all the best for future endeavors.

Yours faithfully,

For: Mastercard Technology Private Limited <u>People_services@mastercard.com</u> Global Business Services Centre - HR Services

Mastercard Technology Private Limited Business Bay, 3rd Floor, Wing 1, Tower A, Survey No. 103, Opp Poona Club Golf Course, Airport Road, Yerwada, Pune-411006



Vodafone Idea Foundation

_V01S



CERTIFICATE **OF INTERNSHIP**

This is to certify that

Pradnya Shendge

From Nitte Meenakshi Institute of Technology, Bengaluru has successfully completed

Virtual Micro-Internship under _VOIS for TechUniversity Engagement Program's Innovation Marathon 2022

to develop a project on "YouTube Transcript summarization using NLP".

The internship is conducted from June 2022 to August 2022

gile

Dr. Nilay Ranjan

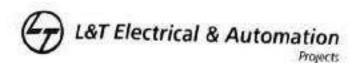
Head Vodafone Idea Foundation & CSR Head Vodafone Idea Limited

Connecting Dreams Foundation

Director, Nagesh Singh

Nagurts





Correspondence Address **Electrical Systems & Equipment** A-10 Gote No-5, Nimbiok Road, MIDC, Ahmednogar - 414 111 Tel.: +91 241 6614 700 -91 241 6614 701 For +91 241 6614 908 www.Lntebg.com

ASW/PERS/2022

5th August 2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Ms. Manasi Nandkumar Shitole students of B.Tech. - ENGINEERING from MKSSS's Cummins Collage of Engineering For Women, PUNE - 411 052. has successfully completed her Internship Training under the guidance of Mr. Manoj Malpure (Manager - Quality Control) from 15th June 2022 to 6th August 2022.

We observed that she was very sincere and hardworking during her tenure.

We wish her a successful and prosperous career ahead.

For L&T Electrical and Automation

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(ESE Division) i DGKulkarni

Dhananjay Kulkarni. DGM - HR & Personnel

L&T Electrical & Automation, a unit of Schneider Electric India Private Limited

Registered Office: Schneider Electric India Private Limited, C-56, Mayapuri Industrial Area, Phase-II New Delhi West Delhi, Pin code - 110064, INDIA | CIN: U74899DL1995PTC065815



Date : 29-Jul-2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Ms. Shreya Nair student of Others, Maharashtra, has successfully completed the internship program from 02-Jun-2022 to 29 Jul 2022 with us under the guidance of Vishal Bansal, Senior Manager II, Software Engineering.

We wish all the success in pursuit of her academic achievements and professional career.

for WM Global Technology Services India Pvt. Ltd.,

uh avala

Akash Gupta Director, Total Rewards & HR Operations



August 31, 2022

To Whomsoever It May Concern

This is to certify that **Ms.Sneha Sharma** has undergone her training with the **Advisory** division, **Bangalore** from **June 02, 2022** to **August 01, 2022**. She was associated with **Technology Consulting**.

She has exhibited a keen interest in learning and has a positive attitude. She is sincere and hard working. The efforts put in by herfor the project and the analysis of the subject carried out during the training was outstanding.

We wish Sneha Sharma, the best in her future endeavors.

Regards,

For and on behalf of PricewaterhouseCoopers Services LLP

Aug 31 2022 6:54PM Shency John Director - Human Capital

PricewaterhouseCoopers Services LLP, 1st & 4th Floor, Tower 'D', The Millenia, 1 & 2 Murphy Road, Ulsoor Bangalore - 560 008 T: +91 (80) 40794000, F: +91 (80) 40794222, www.pwc.com/india



Date: 1.08.2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Asawari Surange** has successfully completed her internship at **BASF Chemicals India Private Limited**. The duration of her training was from 1st June 2022 to 31st July 2022.

We wish Ms. Asawari Surange the best of luck in her future endeavors.

For BASF Chemicals India Private Limited

Rolinio Mutan

Nalini Nutan Authorized Signatory

Registered Office BASF Chemical India Private Limited The Capital, 1204-C, 12th floor, Plot no.C-70, 'G' Block Bandra Kurla Complex, Bandra (East), Mumbai-400051 Internet www.basf.com



To, Dr. Prachi Mukherjee HOD, Electronics and Telecommunications Dept Cummins College of Engineering for Women Karvenagar, Pune - 411052 Vidya Munde-Müller Givetastic Technologies UG (haftungsbeschränkt)

Walderseestraße 7 30163 Hannover

08.08.2022

Subject: Completion letter for Internship Project

Dear Madam,

This letter is to confirm that the following project team has successfully completed the Internship project under the guidance of Mrs. Vidya Munde-Müller, CEO Givetastic

Project Duration: 05th June 2022 - 05. Aug 2022

- 1. 3180 Akshata Ashok Lalage
- 2. 3203 Anuja Limaye
- 3. 3115 Gayatri Belhekar
- 4. 3236 Prapti Pravin Kawthekar
- 5. 3852 PRARTHANA RANADE
- 6. 3256 Kalyani Vivek Taralekar
- 7. 3118 SHRUTI BHARAT
- 8. 3161 Sanika Kalloorkar
- 9. 3111 SAKSHI BADHAN
- 10. 3120 CH S SATHVIKA

Subject area of the project: Web Platform Development (Next.js, React, HTML, JS, CSS)

letter

Vidya Munde-Müller



_V01S



CERTIFICATE **OF INTERNSHIP**

This is to certify that

Mayuri Uttarwar

from Cummins College of Engineering for Women, Pune has successfully completed

Virtual Micro-Internship under _VOIS for Tech University Engagement Program's Innovation Marathon 2022

to develop a project on "Fitness Management Application".

The internship is conducted from July 2022 to September 2022

Dr. Nilay Ranjan

Head Vodafone Idea Foundation & CSR Head Vodafone Idea Limited

Nagesh Singh Compos N

Director **Connecting Dreams Foundation** **ECUBE INTEGRATED SOLUTIONS (OPC) PVT LTD**



To Whom It May Concern

This is to certify that Ms. Janvi Bhanudas Veer has completed 2 Month Internship with us from 15 Jun 2022 to 13 Aug 2022.

During this tenure he has undertaken various tasks including YOLO Algorithm on Open CV, Vehicle identification. he has worked with commitment and always shown enthusiasm to learn. we found him hard working, sincere and confident to her job.

She has always shown a keen interest in the field of networking, Hardware/ Software Integration. We have been observing her growth closely and wish her good luck for her higher academics and success in her future ventures.

Regards, For Ecube Integrated solutions Pvt Ltd



Praamod Sapakal

M/S MILIND RAMCHANDRA RAJWADE

7 13, Sinhgad Road, P. Cast S. No. 39, H.No.2/91, Manikbaug Industries. Wadgaon Budruk, Pune - 411051 Cell : 9822248278, Email: milindrrajwade@gmail.com

Date:1 August 2022.

Ref

To Whomsoever it may concern

This is to certify that Miss.Swarada Mangesh Vidar, C.No.C22019111265, Roll No:3262 studying at MKSSS's Cummins College of Engineering for Women, Pune has successfully completed her internship at Milind Ramchandra Rajwade, Pune, from 1 June 2022 to 30 July 2022.

She has worked on a project titled **Wifi based temperature and humidity** detector. As part of the project, she has completed preliminary objectives of the project.

During her internship, we found her sincere, active and component in executing all assigned tasks and services were found to be satisfactory.

We wish her all the best for her upcoming career.

Regards,

Millind Ramchandra Rajwade

Proprietor





_VOIS



CERTIFICATE of internship

This is to certify that

Aditi Wadatkar

from Cummins College of Engineering for Women, Pune has successfully completed

Virtual Micro-Internship under _VOIS for Tech University Engagement Program's Innovation Marathon 2022

to develop a project on "Automated bank-cheque data verification".

The internship is conducted from June 2022 to August 2022

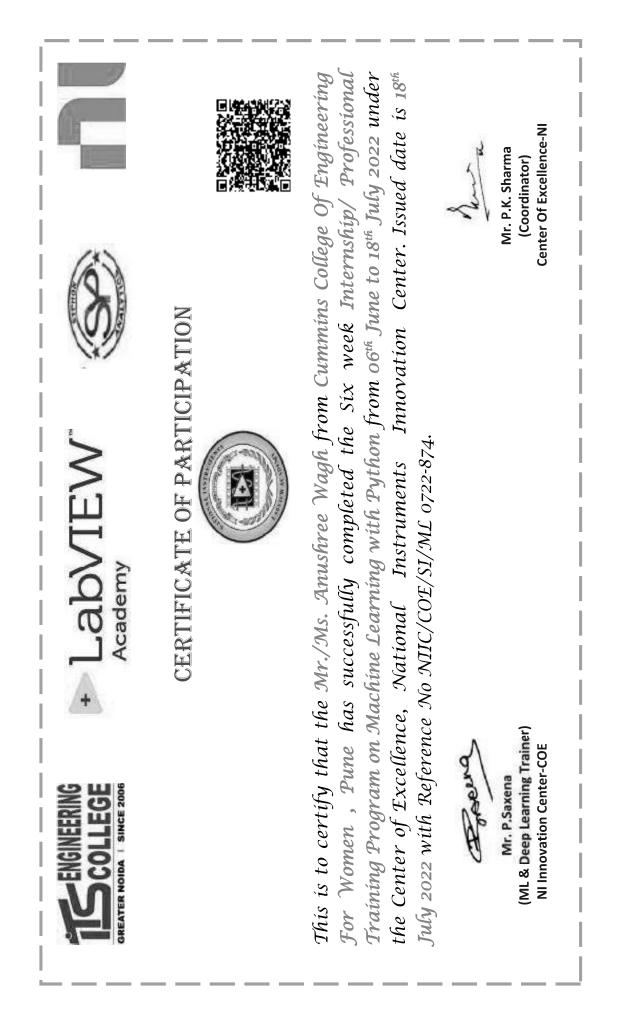
Dr. Nilay Ranjan

Head Vodafone Idea Foundation & CSR Head Vodafone Idea Limited

Nagesh Singh Compos

Director, Connecting Dreams Foundation









CERTIFICATE

This is to certify that

<u>Kartiki Salve</u>

From Nitte Meenakshi Institute of Technology, Bengaluru has successfully completed Virtual Micro-Internship under _VOIS for TechUniversity Engagement Program's Innovation Marathon 2022 to develop a project on "YouTube Transcript summarization using NLP". The internship is conducted from June 2022 to August 2022

Dr. Nilay Ranjan Head Vodafone Idea Foundation & CSR Head Vodafone Idea Limited

Vodafione Idea Foundatio



NagesH Singh

Director, Connecting Dreams Foundation



25 August 2022

PROJECT COMPLETION CERTIFICATE

This is to certify that **Ms. Janhavi Awate (31191)** worked as an Intern in our organization as a part of her academic curriculum from **14 June 2022 to 13 August 2022.**

As a part of her project study, she worked on **"Human Detection in video using Deep learning and OpenCV (YOLO Algorithm)**" and has successfully completed the same.

Her contributions are noteworthy and she has also exhibited a lot of enthusiasm to learn New skills, concepts and algorithms, etc.

We wish her success in all her future endeavors.

Best Regards,

For Tata Elxsi Limited

Heathjann

Geetha Kannan Corporate Manager – Immigration & HR Operations



Regulever Office Tala Elesi Limited /IPS Pose Whitefeld Isinghere Sei Der India Tal +91 80 2297 9123 Fex +93 90 2811 1474 www.stataefici.com



2nd Nov 2022

TO WHOMSOEVER IT MAY CONCERN

Sub: Internship of Pranali Mane at Amazon India , Mumbai

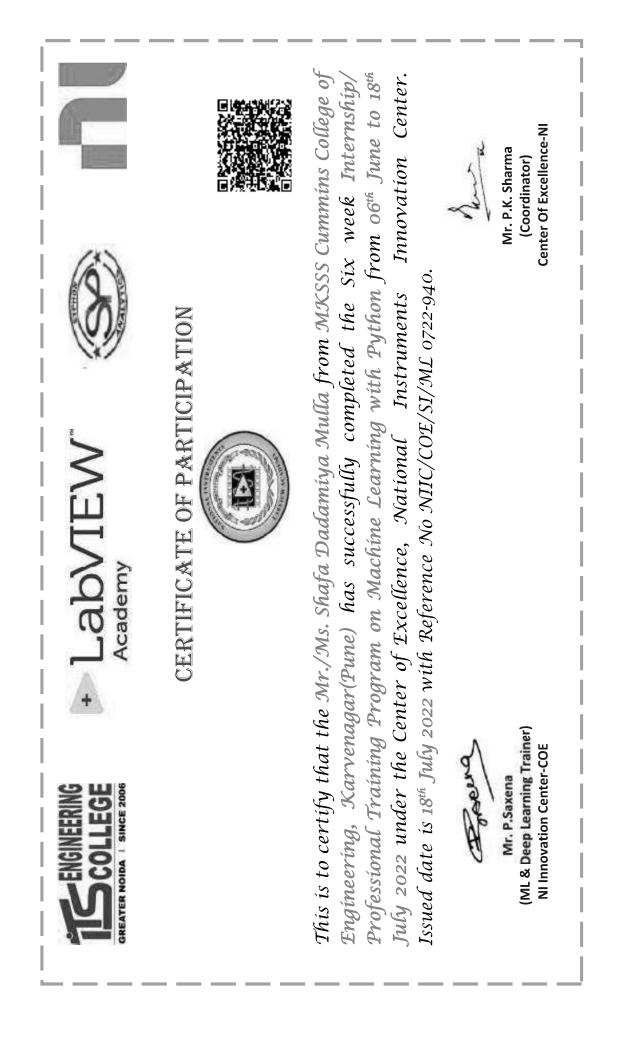
This is to certify that **Pranali Mane** a student of **MKSSS Cummins College of Engineering for Women, Pune** has completed her internship with **Amazon Transportation Services Pvt. Ltd.** from **30-May-2022** to **29-Jul-2022**

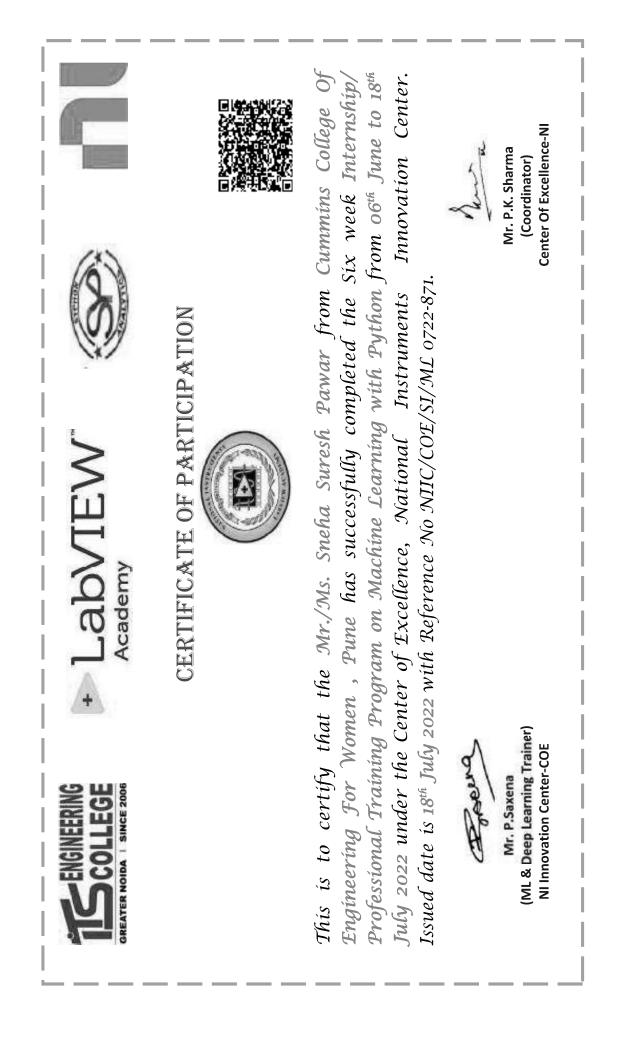
The Project was titled **Territory Bad Scan Control** and assigned by **Tapan V** team under the guidance of **Sheshraj Salvi**. She has successfully completed all the requirements of the project.

We wish her the very best in her future endeavors.

Signature Not Verified Digitally signed by DS AMAZON DEVELOPMENT CENTRE (INDIA) PRIVATE LIMITED(1) Date: 2022,11.02 17:56:21 IST Regiards gagaluru

For Amazon Transportation Services Pvt. Ltd.





M/S MILIND RAMCHANDRA RAJWADE

7 13, Sinhgad Road, P. Cast S. No. 39, H.No. 2/91, Manikbaug Industries. Wadgaon Budruk, Pune - 411051 Cell : 9822248278, Email: <u>milindrraiwade@gmail.com</u>

Date:1 August 2022.

Ref

To Whomsoever it may concern

This is to certify that *Miss,Nivedita Kakasaheb Shinde*, C.No.C22020112206, Roll No:3273 studying at MKSSS's Cummins College of Engineering for Women. Pune has successfully completed her internship at Milind Ramchandra Rajwade, Pune, from 1 June 2022 to 30 July 2022.

She has worked on a project titled Wifi based temperature and humidity detector. As part of the project, she has completed preliminary objectives of the project.

During her internship, we found her sincere, active and component in executing all assigned tasks and services were found to be satisfactory.

We wish her all the best for her upcoming career.

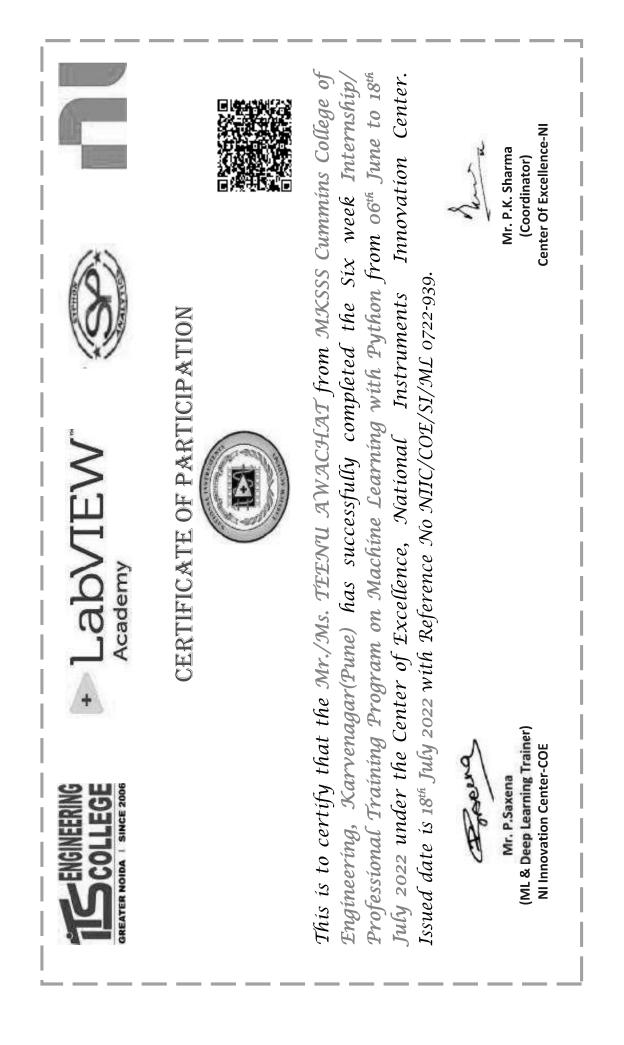
Regards,

Millind Ramehandra Rajwade

Proprietor











Survey.No. 27/1, Malhari Bhosale Industrial Estate, Narhe-Dhayari Road, Pune - 411041 Maharashtra, India.

contact@zealelectromech.com www.zealelectromech.com



+91 735 000 3513 +91 774 499 3833

CERTIFICATE

Date : 07-08-2022

TO WHOMSOVER IT MAY CONCERN

This is to certify that Ms.Thodeti Chrishma N Malleswararao student of Electronics and Telecommunication from MKSSS'S cummins College of Engineering For Women, has successfully, completed

Summer Internship On 'A Recruitment And Selection Process' at Zeal Electromech Pvt.Ltd.

The duration of Summer Internship Project was from 07th Jun 2022 to 07th Aug 2022. During this internship, we found her to be sincere and we wish her success for future.

Authorized Signatory



7th Aug 2022

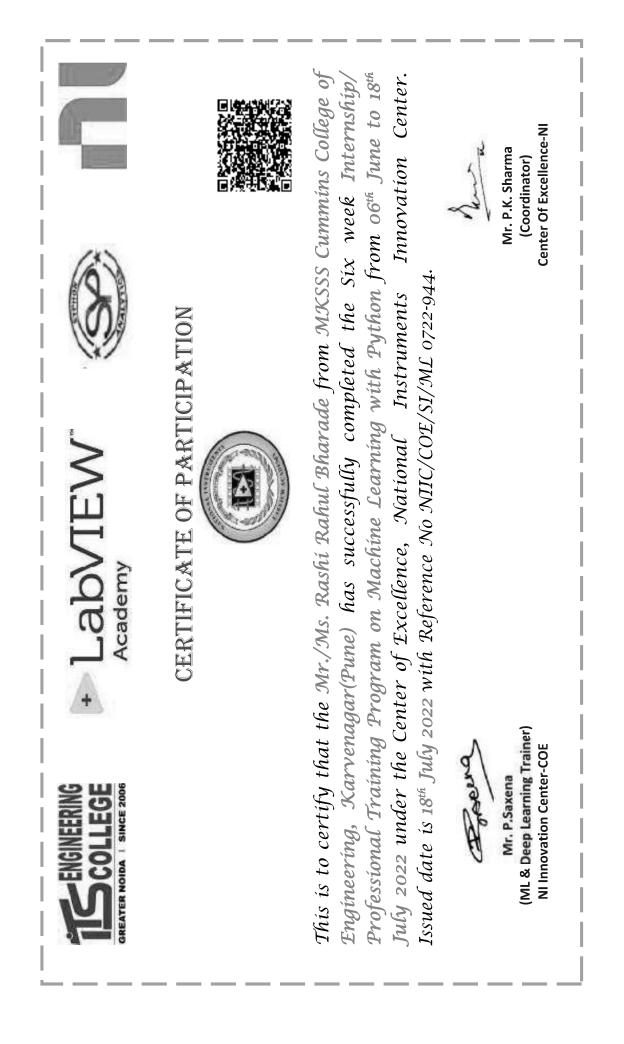
TO WHOMSEVER IT MAY CONCERN

This is to certify that Ms. Mitali Gurkhuprasad Agrawal, student of MKSSS's Cummins College of Engineering for Women, Pune has completed her training and internship from 6th Jun 2022 to 6th Aug 2022 at DataNutts IT Solutions, Pune in Cloud Data Migration under the guidance of Mr. Thomas Joseph.

During the period of this internship, we found her to be very diligent, curious, hardworking, and result-oriented. She has completed all the tasks assigned to her with great sincerity. We wish her all the best for her future endeavors.

For DataNutts IT Solutions Authoriz

Regd. Off.: 21, Rohit Nagar Phase 2, Near Aakriti Eco City, Bhopal – 462026 | Ph. +91-9717944733 | Email:contact@datanutts.com



Certificate of Completion	
This is to certify that	
Aukita Adhikraa Chauau of CUMMINS College of Engineering for Women, Pune	ຍດ, Pune
successfully completed	
Internship Program for Engineering Students in Robotics and Automation	g Students
Prakalpa Bastianpillai President	Chris Bastianpillai Program Director



TECHSTERR TECHNOLOGY SOLUTIONS PRIVATE LIMITED

Website: www.techsterr.co.in

Email: Techsterr61@gmail.com

Date: 09/08/2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that the student Miss. Mugdha Daware

Of Electronic and Telecommunication Engineering Department of MKSSS's Cummins College Of Engineering for Women, Pune has satisfactorily completed her internship working on a" Automation of hydroponic farming project" during the period 8th June 2022 to 8th August 2022 under our guidance.



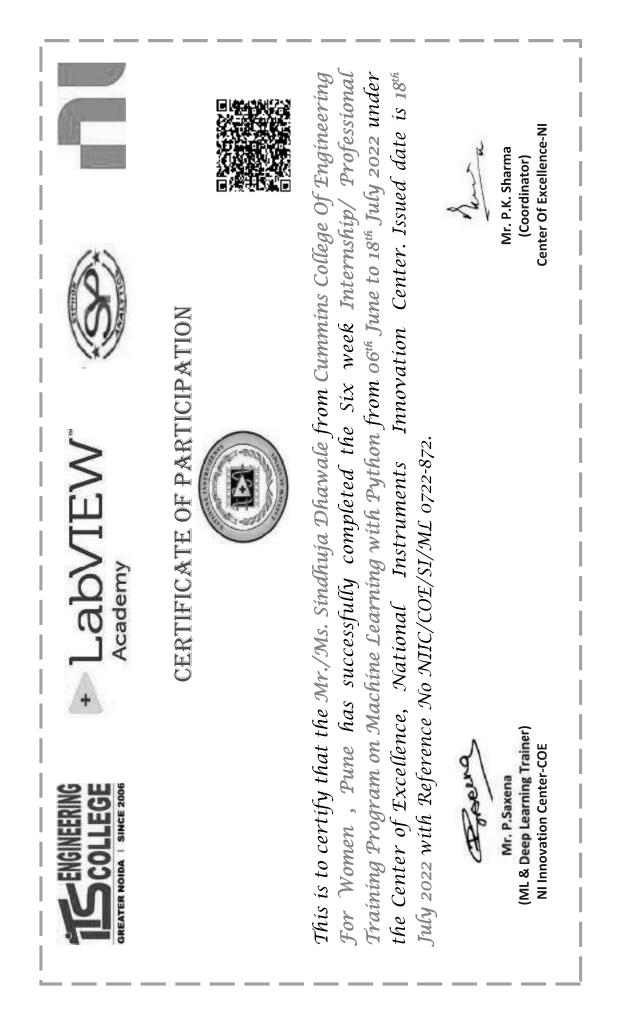
For Techsterr Technology Solutions Pvt. Ltd.

R&D Department

Prajakta Sudrik

Co-founder Techsterr Technology Solutions Pvt. Ltd.

Office: Surya Towers , Door no. 1-7-4 to 19. Flat –B1, 4th Floor, Sardar Patel Road, Kalsiguda,Secunderabad,Telangana-500003





CTS No - 1049/A2, S No - 86/2 FS Plaza 3rd Floor, Khanapur road, Tilakwadi, Belgaum-590006 KARNATAKA.

Date: 26-08-2022

TO WHOME IT MAY CONCERN

This is to certify that Miss. Priyanka Gadewar student of Cummins College of Engineering for Women Pune (Electronic & Telecommunication Engineering, 6th Semester), had successfully completed internship program from 07th July 2022 to 17th Aug 2022 at our company. She worked on Sales Order Bridge Module using AI Project in Core PHP. During the period of her internship program with us she was found punctual, hard-working and inquisitive.

We wish her every success in life.



Authorized Signature SOFTMUSK INFO PVT LTD





CTS No - 1049/A2, S No - 86/2 FS Plaza 3rd Floor, Khanapur road, Tilakwadi, Belgaum-590006 KARNATAKA.

Date: 26-08-2022

TO WHOME IT MAY CONCERN

This is to certify that Miss. Priyanka Gadewar student of Cummins College of Engineering for Women Pune (Electronic & Telecommunication Engineering, 6th Semester), had successfully completed internship program from 07th July 2022 to 17th Aug 2022 at our company. She worked on Sales Order Bridge Module using AI Project in Core PHP. During the period of her internship program with us she was found punctual, hard-working and inquisitive.

We wish her every success in life.



Authorized Signature SOFTMUSK INFO PVT LTD





Avery Dennison Label & Graphic Materials - South Asia

Internship Completion Certificate

Date: 11 October 2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Shruti Gawas has successfully completed her internship in Information Technology team with Avery Dennison India Pvt. Ltd. from 8th June 2022 to 5th August 2022

During the internship she has demonstrated self-motivation to learn new skills. Her performance exceeded our expectations.

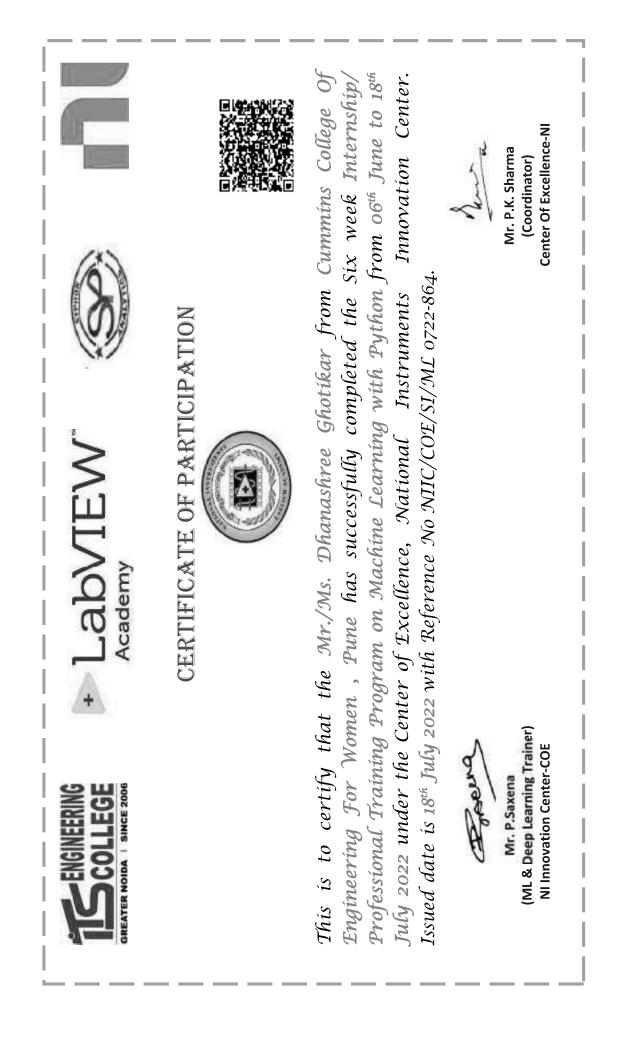
We wish her all the best for her upcoming career.

Best Regards,

For Avery Dennison India Pvt. Ltd.

1. Agaenup

Saurabh Agarwal Senior Director & General Manager | South Asia



IS COLLEGE	 LabVIEW Academy 	Ð	
	CERTIFICATE OF PARTIC	IPATION	
			的高級是
	iat the Mr./Ms. Harshada Girdhari enagar(Pune) has successfully com	pleted the Six we	ek Internskip,
Professional Trainb July 2022 under the	ng Program on Machine Learning v 1 Center of Excellence, National 1 ly 2022 with Reference No NIIC/COL/S	instruments Inno	
Professional Trainb July 2022 under the	Center of Excellence, National 1	instruments Inno	



Ref:BT/HR/Intrnshp/21-21/10/45

13th August 2022

To Whomsoever It May Concern

This is to certify that, **Ms. Rujuta Rajesh Giri** has successfully completed her internship in **Brisa Technologies Pvt. Ltd., Bangalore**, starting from 6th June,2022 to 6th August,2022. She has been relieved from all her duties, effective from 6th August 2022.

She explored and worked as Trainee Software Testing.

She proven to be a good team member throughout her term and had the ability to self – learn.

Her conduct was good throughout this period.

For Brisa Technologies Pvt. Ltd.,



Subodh Patil CEO



Certificate of Internship

To Whom It May Concern

August 10, 2022

Sub: Certificate of Internship / Training Completion

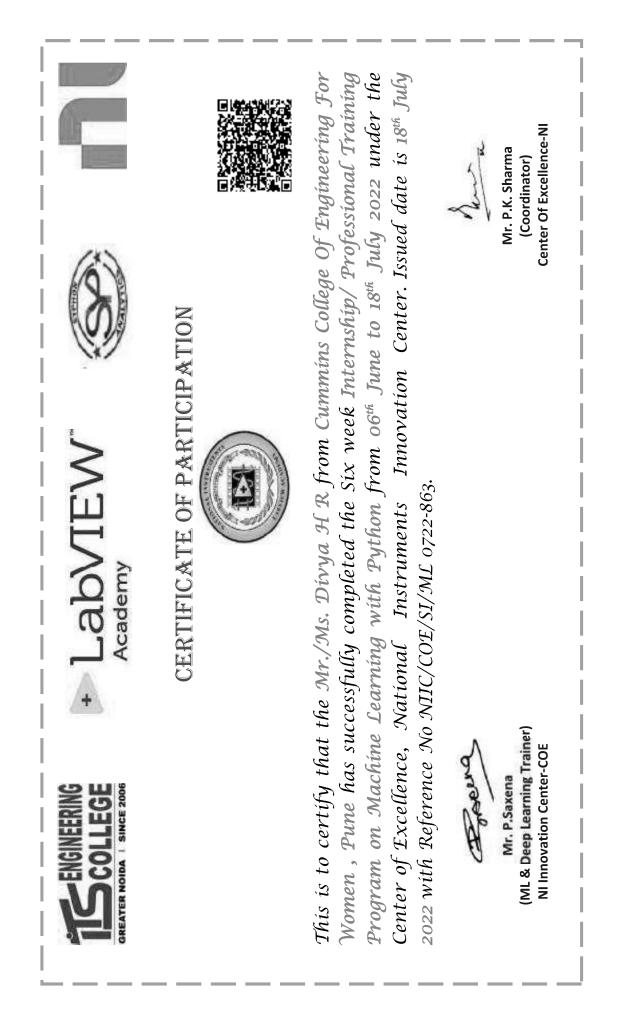
This is to certify that **Ms. Vaishnavi Gulavani** has successfully completed Internship Project at **ex consultants**. The project was for a duration of 1.5 months from 29th Jun 2022 to 10th Aug 2023. The preliminary objective of the internship project was successfully met by intern.

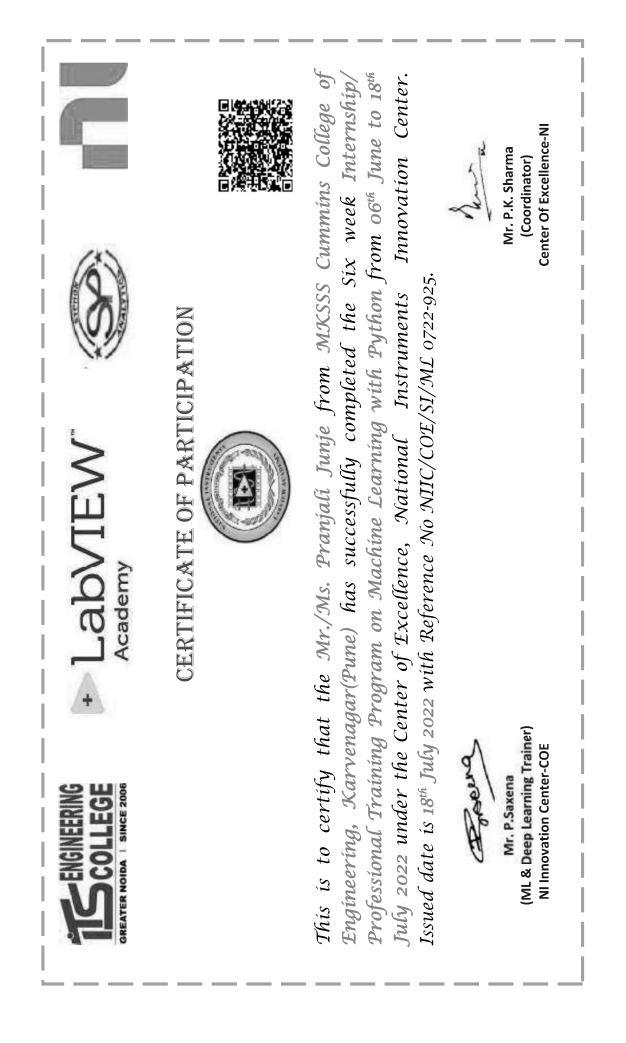


mopo Regards,

(Proprietor) Yadunath R. Deshpande

Rega.: Saishree. Plot No. 18, Lane No. 10, Naitaj Society, Karvenagar, Pure - 41 1052, (MS) India, Work : F-3, Yuvaraj Apartments, Plot # 22, J. P. Naik Path, Navketar Society, Kolinud, Pune 41 1038 (MS) India, Tel.: 491-20-2543 8046, Cell.: +91 94220 23781, Email: support@esconsultants.net. Visit us al : www.esconsultants.net







_V0IS



CERTIFICATE of internship

This is to certify that

Samruddhi Kadam

From Cummins College of Engineering for Women, Pune has successfully completed

Virtual Micro-Internship under _VOIS for TechUniversity Engagement Program's Innovation Marathon 2022

to develop a project on "Credit Card Default Prediction".

The internship is conducted from June 2022 to August 2022

Dr Nilay Ranjan

Head Vodafone Idea Foundation & CSR Head Vodafone Idea Limited

Nagesh Singh Chapao N

Director Connecting Dreams Foundation

7th Aug 2022

TO WHOMSEVER IT MAY CONCERN

This is to certify that Ms. Nikita Anil Kadav, student of MKSSS's Cummins College of Engineering for Women, Pune has completed her training and internship from 6th Jun 2022 to 6th Aug 2022 at DataNutts IT Solutions, Pune in Cloud Data Migration under the guidance of Mr. Thomas Joseph.

During the period of this internship, we found her to be very diligent, curious, hardworking, and result-oriented. She has completed all the tasks assigned to her with great sincerity. We wish her all the best for her future endeavors.

For DataNutts IT Solutions Authorize

Regd. Off.: 21, Rohit Nagar Phase 2, Near Aakriti Eco City, Bhopal – 462026 | Ph. +91-9717944733 | Email: contact@datanutts.com



SIIL/HR/IC/AK/10082022

August 10, 2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify as follows:

- Ms. Aachal Kadoo, Student of Cummins College of Engineering for Women, Pune has successfully completed her Internship from June 10, 2022 to August 10, 2022 with our Organization.
- 2. The Internship Topic undertaken by her was titled "EEL MIS Web Development".
- 3. During the period, she was found hardworking, diligent and inquisitive.

We wish her all success in her future endeavors.

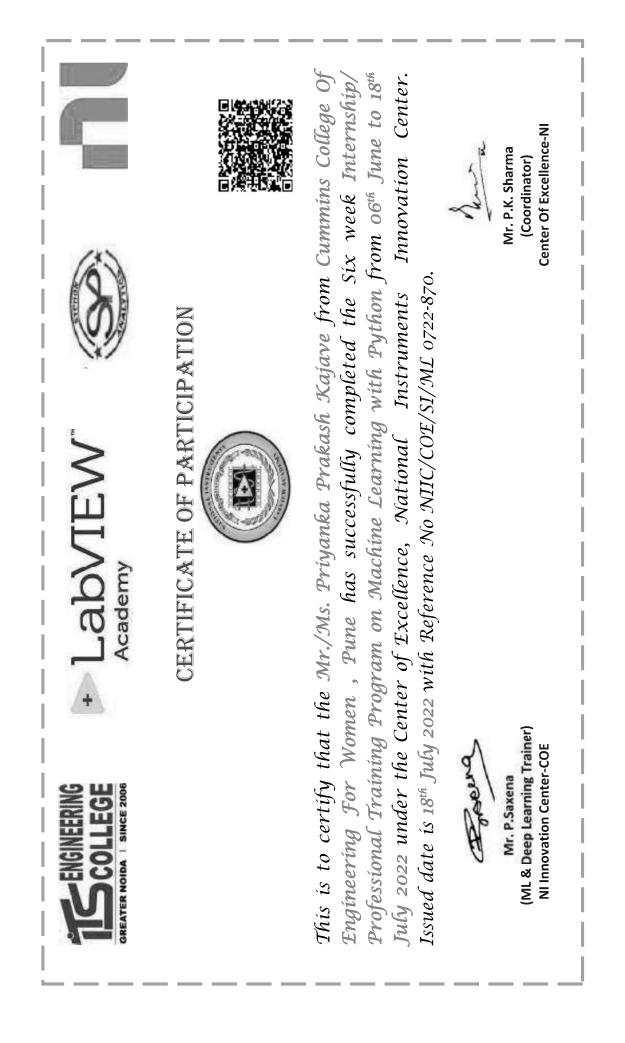
Solar Industries India Limited

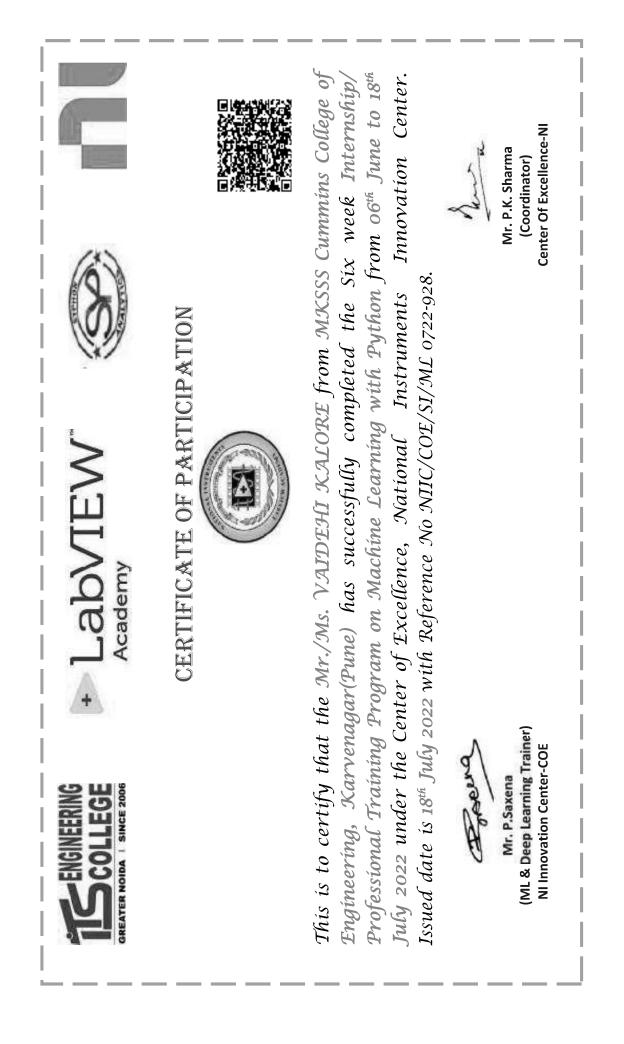
Authorized Signatory



Solar Industries India Limited

Regd. Office : "Solar" House, 14, Kachimet, Amravati Road, Nagpur - 440 023, INDIA ℓ (+91)712-6634555/567
(+91)712-6634578-579
Solar@solargroup.com CIN : L74999MH1995PLC085878
www.solargroup.com







Industry

Date: August 19, 2022

Experience Certificate

This is to certify that **Ms. Pradnya Kanale** has worked with Siemens Industry Software (India) Pvt Ltd w.e.f. **June 1, 2022 till July 29, 2022**.

Her designation at the time of relieving was **Student Intern**.

We wish her success in all her future endeavors.

With Best Regards,

For Siemens Industry Software (India) Pvt. Ltd

PotekarDigitally signed
by Potekar LalitaLalitaDigitally signed
by Potekar LalitaLalitaDigitally signed
by Potekar LalitaLalitaDigitally signed
by Potekar Lalita

Lalita Potekar Specialist – Human Resources

CC: Personnel File (Personnel Number: 645276)

Schlumberger

CERTIFICATE OF INTERNSHIP

CERTIFICATE IS PROUDLY PRESENTED TO THIS

Maithili Karlekar

Type your text

at the Pune Technology Center and worked on project titled "Create reusable Java Library for cloud messaging" has successfully completed internship, over the duration of 30-May-2022 to 29-July- 2022,

Reduner.

Rashmi Kumat Pune Technology Center Manager

Shamecka Shamecka Fe

Shamecka Ferrnandis Technology Center HR Manager



Certificate of Internship

To Whom It May Concern

August 10, 2022

(Proprietor)

110

Regards,

Yadunath R. Deshpande

mopoy

Sub: Certificate of Internship / Training Completion

This is to certify that **Ms. Priyanka Khade** has successfully completed internship Project at **es consultants**. The project was for a duration of 1.5 months from 29th Jun 2022 to 10th Aug 2022. The preliminary objective of the internship project was successfully met by intern.



Regal: Saistree, Plot Vo. 18, Lane No. 10, Natraj Society, Karvenagar, Pune - 411052, (MS) India. Work : F-3, Yuvaraj Apartments, Plot # 22, J. P. Noik Path, Navketan Society, Kothrud, Pune 411038 (MS) India. Tel., +91-20-2543 8046, Cell. : +91 94220 23781, Email : support@esconsultants.net, Visit us at : www.esconsultants.net

M/S MILIND RAMCHANDRA RAJWADE

7 13, Sinhgad Road, P. Cast S. No. 39, H.No.2/91, Manikbaug Industries. Wadgaon Budruk, Pune - 411051 Cell : 9822248278, Email: milindrrajwade@gmail.com

Date:1 August 2022.

Ref

To Whomsoever it may concern

This is to certify that Miss. Vaishnavi Mahendra Kharat

studying at MKSSS's Cummins College of Engineering for Women, Pune has successfully completed her internship at Milind Ramchandra Rajwade, Pune, from 1 June 2022 to 30 July 2022.

She has worked on a project titled **Wifi based temperature and humidity** detector.As part of the project, she has completed preliminary objectives of the project.

During her internship, we found her sincere, active and component in executing all assigned tasks and services were found to be satisfactory.

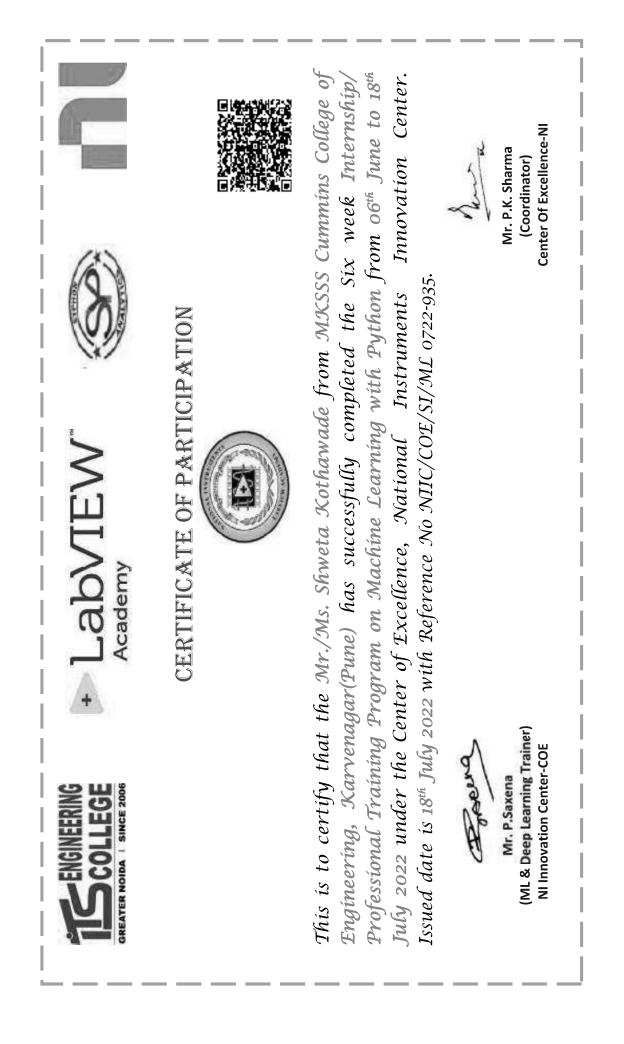
We wish her all the best for her upcoming career.

Regards,

Millind Ramchandra Rajwade

Proprietor







To, Dr. Prachi Mukherjee HOD, Electronics and Telecommunications Dept Cummins College of Engineering for Women Karvenagar, Pune - 411052 Vidya Munde-Müller Givetastic Technologies UG (haftungsbeschränkt)

Walderseestraße 7 30163 Hannover

08.08.2022

Subject: Completion letter for Internship Project

Dear Madam,

This letter is to confirm that the following project team has successfully completed the Internship project under the guidance of Mrs. Vidya Munde-Müller, CEO Givetastic

Project Duration: 05th June 2022 - 05. Aug 2022

- 1. 3180 Akshata Ashok Lalage
- 2. 3203 Anuja Limaye
- 3. 3115 Gayatri Belhekar
- 4. 3236 Prapti Pravin Kawthekar
- 5. 3852 PRARTHANA RANADE
- 6. 3256 Kalyani Vivek Taralekar
- 7. 3118 SHRUTI BHARAT
- 8. 3161 Sanika Kalloorkar
- 9. 3111 SAKSHI BADHAN
- 10. 3120 CH S SATHVIKA

Subject area of the project: Web Platform Development (Next.js, React, HTML, JS, CSS)

letter

Vidya Munde-Müller

NITUSS South

Certificate of Program Completion

This certifies that

Purva Kane

has successfully completed a

Mitacs Globalink Research Internship

effective December 2022.

Université du Québec en Outaouais Design of an artificial intelligencebased controller for a solar - Gatineau inverter Project Title: <u>University:</u> Host Host

Shamsodin Taheri

Professor:

Mitacs Globalink <u>nternship</u> Research

Globalink Research Internships are 12 weeks in duration and interns are required to work 40 hours per week.

Hill Antrata

Vice President, Programs **Gail Bowkett**



Industry

Date: August 22, 2022

Experience Certificate

This is to certify that **Mr. Arya Kaujalgi** has worked with Siemens Industry Software (India) Pvt Ltd w.e.f. **June 01, 2022 till August 01, 2022**.

His designation at the time of relieving was **Student Intern**.

We wish him success in all his future endeavors.

With Best Regards,

For Siemens Industry Software (India) Pvt. Ltd

Poteka Digitally signed by Potekar Lalita r Lalita Date: 2022.08.23 11:18:46 +05'30'

Lalita Potekar Specialist – Human Resources

CC: Personnel File (Personnel Number : 644863)

Restricted Siemens Industry Software (India) Pvt. Ltd.

Endress+Hauser

People for Process Automation

Endress (Hauser InfaServe (India) Private Limited M-174 / 175. MIDC, Walaj, Aurungabol - 431336. Maharashtra, India

Ms. Akanksha Milind Kharkar Cummins College of Engineering for Women, Pune, Maharashtra, Mobile: 8669832074 Contact Manoj Patil Business Applications Phone +91 240 2563673 Cell phone +91 9850826191 manoj.patil@endress.com

Aurangabad, July 29, 2022

Internship Certificate

This is to certify that Ms. Akanksha Milind Kharkar has completed the internship program with Endress+Hauser InfoServe (India) Pvt. Ltd. From 08th Jun 2022 to 29th Jul 2022

During the internship period she got exposure & understanding of following topics

- SAP ERP system and architecture
- Robotic Process Automation
- Digital WorkPlace tools
- First Answer HD Ticket monitoring system

She could demonstrate entire quotation to cash process in SAP test system which is good achievement for her

During the internship she also demonstrated good design skills with a self-motivated attitude to learn new things. She showed keen interest in learning and helping many activities.

Her performance exceeded expectations

I take this opportunity to thank Akanksha and wish her all the best for future endeavors

Yours Truly

Manoj Patil



Endress-Hauser InfeServe (India) Private Limited M- 174 / 175, MIDC, Walaj Aurorgatad - 411136, Mahanshitra, India Phone +91.240.2563.600 Fax +91.240.2555.279 indo-shis@endress.com www.infoserer.mittess.com

Scanned by TapScanner



HR-SSC/29-08-2022/333419

29 August 2022

To Whom It May Concern,

This is to certify that **Ms. Shivani Khilari**, student of "**Cummins Women's College**, **Pune**" has successfully completed her internship in "**Basics of ISP operations covering ILL**, **GVPN**, **TX services**" under the guidance of **Ms. Jyoti Vikrant Kadam** at **Tata Communications Limited** from **08 June 2022 to 08 August 2022** by working at our facility at **Pune-Dighi**.

She was found to be sincere and hardworking during her tenure.

We wish her success in all her future endeavours.

The above information is correct as per our company records as on the date of this letter issued. For any questions, please contact us at AskHR@tatacommunications.com

For Tata Communications Limited,

Vailhar Kaul

Warm Regards, Vaibhav Kaul General Manager Note: This is an electronically signed document

Tata Communications - Confidential

TATA COMMUNICATIONS

Tata Communications Limited Pune Alandi Road, Dighi, Pune 411 015 India. Tel: +91 20 6615 3333 Fax: +91 20 6615 3309 Regd. Office: VSB Mahatma Gandhi Road, Fort, Mumbai 400 001 India. Tel: +91 22 6657 8765 Fax: +91 22 6639 5162 email: askhr@tatacommunications.com CIN no. : L64200MH1986PLC039266 website: www.tatacommunications.com



TO WHOMSOVER IT MAY CONCERN

This is to certify that **Miss Tanaya Kondejkar**, who is pursuing a **B.E. (majoring in Electronics and Telecommunication)** from **Cummins College of Engineering, Pune**, has successfully completed **8 weeks** long internship (**from 01**st **June 2022 to 31st July 2022**) with our organisation.

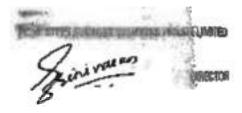
Tanaya Kondejkar's job responsibility as an intern at Right Steps Consultancy involved the following tasks:

- Research Work
 - a. Research on applying CNN techniques to sonography images.
 - b. Use of deep learning techniques to identify feature set useful for machine learning based prediction/detection algorithms.
 - Researched multiple image quality assessment algorithms to identify the best approach (BRISQUE) to determine suitability of sonography images before applying deep learning algorithms.
- Project: Breast Cancer Detection Algorithm
 - a. Developed a machine learning algorithm for identification of benign and Malignant tumour.
 - b. Demonstrated excellent grasp of Exploratory Data Analysis and visualisation-based feature selection techniques
 - c. Demonstrated good understanding of Principal Component Analysis techniques for dimensionality reduction
 - d. Demonstrated deep understanding of classification algorithms like Random Forest and kNN.

During the period of her internship program with us she was found to be sincere, proactive, hardworking and inquisitive. We wish her every success in her life and career.

Regards,

For Right Steps Business Solutions Private. Ltd.



Swati Srinivasan Founder & CEO

M/S MILIND RAMCHANDRA RAJWADE

7 13, Sinhgad Road, P. Cast S. No. 39, H.No.2/91, Manikbaug Industries. Wadgaon Budruk, Pune - 411051 Cell : 9822248278, Email: milindrrajwade@gmail.com

Date:1 August 2022.

Ref

To Whomsoever it may concern

This is to certify that Miss. Vasavi Abhay Kotpalliwar, C.No.C22020112206, Roll No:3273 studying at MKSSS's Cummins College of Engineering for Women, Pune has successfully completed her internship at Milind Ramchandra Rajwade, Pune, from 1 June 2022 to 30 July 2022.

She has worked on a project titled Wifi based temperature and humidity detector. As part of the project, she has completed preliminary objectives of the project.

During her internship, we found her sincere, active and component in executing all assigned tasks and services were found to be satisfactory.

We wish her all the best for her opcoming career.

Regards.

Millind Ramchandra Rajwade*

Proprietor





HR-SSC/29-08-2022/333419

29 August 2022

To Whom It May Concern,

This is to certify that **Ms. Tejaswi Mangalapelly**, student of "**Cummins Women's College**, **Pune**" has successfully completed her internship in "**Basics of ISP operations covering ILL**, **GVPN, TX services**" under the guidance of **Ms. Jyoti Vikrant Kadam** at **Tata Communications Limited** from **08 June 2022 to 08 August 2022** by working at our facility at **Pune-Dighi**.

She was found to be sincere and hardworking during her tenure.

We wish her success in all her future endeavours.

The above information is correct as per our company records as on the date of this letter issued. For any questions, please contact us at AskHR@tatacommunications.com

For Tata Communications Limited,

Vailhar Kaul

Warm Regards, Vaibhav Kaul General Manager Note: This is an electronically signed document

Tata Communications - Confidential

TATA COMMUNICATIONS

Tata Communications Limited Pune Alandi Road, Dighi, Pune 411 015 India. Tel: +91 20 6615 3333 Fax: +91 20 6615 3309 Regd. Office: VSB Mahatma Gandhi Road, Fort, Mumbai 400 001 India. Tel: +91 22 6657 8765 Fax: +91 22 6639 5162 email: askhr@tatacommunications.com CIN no. : L64200MH1986PLC039266 website: www.tatacommunications.com



Certificate of Completion

We proudly award

Ms Vaishnavi Padhar

for completing 2 months internship (01-June-2022 to 31-July-2022) at House of Aadyaa and handling it all like a champ!

We wish you well in your future endeavours!

Awarded on the 1st August 2022

Sayalee Marathe

FOUNDER

Jaydeep Hingne

CO-FOUNDER

30 Aadyaa Originals Private Limted

Advance Design Solutions

Shop no.8, Pooja Palace, ShivtejNagar, Plot No.5, Chinchwad, Pune 411019

Email : advdesignsoln2019@gmail.com

Ref No:-010

Date:-31/07/2022

Experience Certificate

This is to certify that Ms. Ruchi Nitin Bogawat has worked with Advance Design Solutions w.e.f. June 6, 2022 till July 31, 2022.

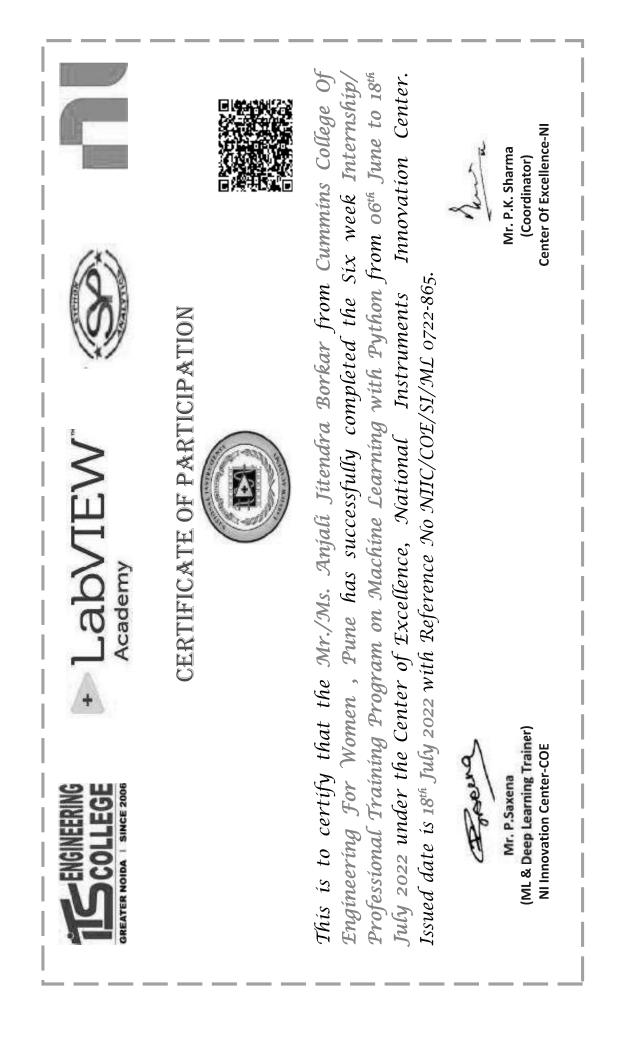
Her designation at the time of relieving was

Student Intern.

We wish her success in all her future endeavors.

With Best Regards, Atul K.Bora Director Advance Design Solutions





Certificate of Completion	Retriction Program
This is to certify that	
Rachana Deepak Chaugule of CUMMINS College of Engineering for Women, Pune	n, Pune
successfully completed	
Internship Program for Engineering Students in Robotics and Automation	Students
President	Chris Bastianpillai Program Director





CHANDRA ELECTRICAL AND ELECTRONICS

Panarea Building, 753/754 MIDC-Bhocari, Pone - 411026

Electronic Manufacturing Service



CERTIFICATE

This is to certify that Miss. Harsha Sunil Shendge, is a student of MKSSS's Cummins College of Engineering for Women Pune, has undergone her internship training of 2 months from 6th June 2022 to 6th August 2022 in Chandra Electricals & Electronics, Pune. During her tenure she was working in SMT, Production, Testing, Inwards QA and Electronic Fault Finding. She is polite and honest to her work.

We wish her success in all her future endeavors.

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Hiranshighlerti Sycorletor

Himanshu P. Modi

(Authorized Signatory)



Ref: Cummins/PSBU/CIL/ENGG/ Date- 06-11-2022

CERTIFICATE

This is to certify that **Rucha Jagtap** from Cummins College of Engineering, Pune

has successfully completed her Project in Cummins Technologies India Pvt

Limited - Power Systems Business Unit.

she has done her project with us from 06th Jun.2022 to 06th Aug.2022

The topic of her project was- **To develop system architect diagram for PSBU advance** control system.

Her performance was found satisfactory during the period.

We wish her all the best for all her future endeavors.

For Cummins Technologies India Pvt Limited

Soumitra Mehrotra General Manager-HR.

Cummins Technical Centre India Division of Cummins Technologies India Private Limited Survey No. 31(pt), 32(pt), 33(pt) Dhanukar Colony, Kothrud Pune 411 038 Maharashtra, India Phone +91 20 2538 5435/ 2538 0240 Fax +91 20 2538 0125 Cumminsindia.com Cumminsindia.com Cuns: U29113PN1

Cummins Technologies India Private Limited, Cummins India Office Campus Tower A, 2nd, 4th and 8th Floor,Sr. No. 21, Balewadi, Pune – 411 045 CIN: U29113PN1994FTC139153



To, Dr. Prachi Mukherjee HOD, Electronics and Telecommunications Dept Cummins College of Engineering for Women Karvenagar, Pune - 411052 Vidya Munde-Müller Givetastic Technologies UG (haftungsbeschränkt)

Walderseestraße 7 30163 Hannover

08.08.2022

Subject: Completion letter for Internship Project

Dear Madam,

This letter is to confirm that the following project team has successfully completed the Internship project under the guidance of Mrs. Vidya Munde-Müller, CEO Givetastic

Project Duration: 05th June 2022 - 05. Aug 2022

- 1. 3180 Akshata Ashok Lalage
- 2. 3203 Anuja Limaye
- 3. 3115 Gayatri Belhekar
- 4. 3236 Prapti Pravin Kawthekar
- 5. 3852 PRARTHANA RANADE
- 6. 3256 Kalyani Vivek Taralekar
- 7. 3118 SHRUTI BHARAT
- 8. 3161 Sanika Kalloorkar
- 9. 3111 SAKSHI BADHAN
- 10. 3120 CH S SATHVIKA

Subject area of the project: Web Platform Development (Next.js, React, HTML, JS, CSS)

letter

Vidya Munde-Müller



_V01S



CERTIFICATE **OF INTERNSHIP**

This is to certify that

Purva Barge

from Cummins College of Engineering for Women, Pune has successfully completed

Virtual Micro-Internship under _VOIS for Tech University Engagement Program's Innovation Marathon 2022

to develop a project on "Fitness Management Application".

The internship is conducted from July 2022 to September 2022

Compos

Director **Connecting Dreams Foundation**

Nagesh Singh

Head Vodafone Idea Foundation & CSR Head Vodafone Idea Limited Dr. Nilay Ranjan





To, Dr. Prachi Mukherjee HOD, Electronics and Telecommunications Dept Cummins College of Engineering for Women Karvenagar, Pune - 411052 Vidya Munde-Müller Givetastic Technologies UG (haftungsbeschränkt)

Walderseestraße 7 30163 Hannover

08.08.2022

Subject: Completion letter for Internship Project

Dear Madam,

This letter is to confirm that the following project team has successfully completed the Internship project under the guidance of Mrs. Vidya Munde-Müller, CEO Givetastic

Project Duration: 05th June 2022 - 05. Aug 2022

- 1. 3180 Akshata Ashok Lalage
- 2. 3203 Anuja Limaye
- 3. 3115 Gayatri Belhekar
- 4. 3236 Prapti Pravin Kawthekar
- 5. 3852 PRARTHANA RANADE
- 6. 3256 Kalyani Vivek Taralekar
- 7. 3118 SHRUTI BHARAT
- 8. 3161 Sanika Kalloorkar
- 9. 3111 SAKSHI BADHAN
- 10. 3120 CH S SATHVIKA

Subject area of the project: Web Platform Development (Next.js, React, HTML, JS, CSS)

letter

Vidya Munde-Müller







_V0IS



CERTIFICATE of internship

This is to certify that

Shraddha Magdum

From Cummins College of Engineering for Women, Pune has successfully completed

Virtual Micro-Internship under _VOIS for TechUniversity Engagement Program's Innovation Marathon 2022

to develop a project on "Credit Card Default Prediction".

The internship is conducted from June 2022 to August 2022

Dr Nilay Ranjan

Head Vodafone Idea Foundation & CSR Head Vodafone Idea Limited

Nagesh Singh Chapao N

Director Connecting Dreams Foundation



_V01S



CERTIFICATE

This is to certify that

Shweta Magdum

From Cummins College of Engineering for Women, Pune has successfully completed

Virtual Micro-Internship under _VOIS for TechUniversity Engagement Program's Innovation Marathon 2022

to develop a project on "Credit Card Default Prediction".

The internship is conducted from June 2022 to August 2022

Dr Nilay Ranjan

Head Vodafone Idea Foundation & CSR Head Vodafone Idea Limited

Nagesh Singh Chapao N

Director Connecting Dreams Foundation



Industry

Date: July 29, 2022

Experience Certificate

This is to certify that **Ms. Mayuri Mahajan** has worked with Siemens Industry Software (India) Pvt Ltd w.e.f. **June 1, 2022 till July 29, 2022**.

Her designation at the time of relieving was **Student Intern**.

We wish her success in all her future endeavors.

With Best Regards,

For Siemens Industry Software (India) Pvt. Ltd

PotekarDigitally signed
by Potekar LalitaLalitaDate: 2022.07.29
12:34:25 +05'30'

Lalita Potekar Specialist – Human Resources

CC: Personnel File (Personnel Number: 644939)

Restricted Siemens Industry Software (India) Pvt. Ltd.





July 15, 2022

EXPERIENCE CERTIFICATE

To Whom It May Concern

This is to certify that **Manasvi Mattoo (EE ID 132148)** has done internship at Mastercard Technology Private Limited from May 16, 2022 to July 15, 2022 on **Operations and Technology** under the guidance of **Kapil Banwari**.

We take this opportunity to thank and wish all the best for future endeavors.

Yours faithfully,

For: Mastercard Technology Private Limited <u>People_services@mastercard.com</u> Global Business Services Centre - HR Services

Mastercard Technology Private Limited Business Bay, 3rd Floor, Wing 1, Tower A, Survey No. 103, Opp Poona Club Golf Course, Airport Road, Yerwada, Pune-411006



GSTIN: 29ABCCS3792D1Z5

CTS No - 1049/A2, S No - 86/2 FS Plaza 3rd Floor, Khanapur road, Tilakwadi, Belgaum-590006 KARNATAKA.

Date: 08-08-2022

TO WHOME IT MAY CONCERN

This is to certify that **Shachi Kokare** student of **Cummins College of Engineering for Women Pune, (Electronics and Telecommunication Engineering, 6th Semester)**, had successfully completed internship program from 11th **June 2022** to 05th **Aug 2022** at our company. She worked on **Iris Recognition using Machine Learning** Project. During the period of her internship program with us she was found punctual, hard-working and inquisitive.

We wish her every success in life.



Authorized Signature SOFTMUSK INFO PVT LTD

WWW.SOFTMUSK.COM

MAHARASHTRA KNOWLEDGE CORPORATION LIMITED

CIN: U80302 PN2001 PLC135348



Date: August 10, 2022 Ref.: MKCL: HRD: 2022-23

Creating a Knowledge Lit Wold www.mkcl.org

TO WHOMSOEVER IT MAY CONCERN

This is to certified that, Ms. Sharvari Padole, having current address of residence at Karvenagar, Pune - 411052, being a student of Cummins college of Engineering is currently undergoing Internship as an integral part of academic curriculum at Maharashtra Knowledge Corporation Limited (MKCL) under the guidance of Mr. Vijay Chauhan, Enterprise Architect (ProNExT). The period of internship was from June 01, 2022 to July 31, 2022.

It is further certified that she is working as an intern under Core Studio Team under the guidance of her supervisor and successfully completed all the entrusted tasks.

We wish her success in her chosen career path.

Phaile

Komal Chaubal Chief Executive Officer



08/25/2022

TO WHOMSOEVER IT MAY CONCERN

We are pleased to confirm that **Aishwarya Mukund Purohit**, from **Cummins College of Engineering For Women**, **Pune** has successfully completed an internship program with us for the duration from 06/10/2022 to 08/20/2022.

Her conduct was good and she has shown good enthusiasm and interest towards the tasks assigned to her.

We wish her the best of luck for her studies and all her future endeavours.

For YASH Technologies Pvt. Ltd

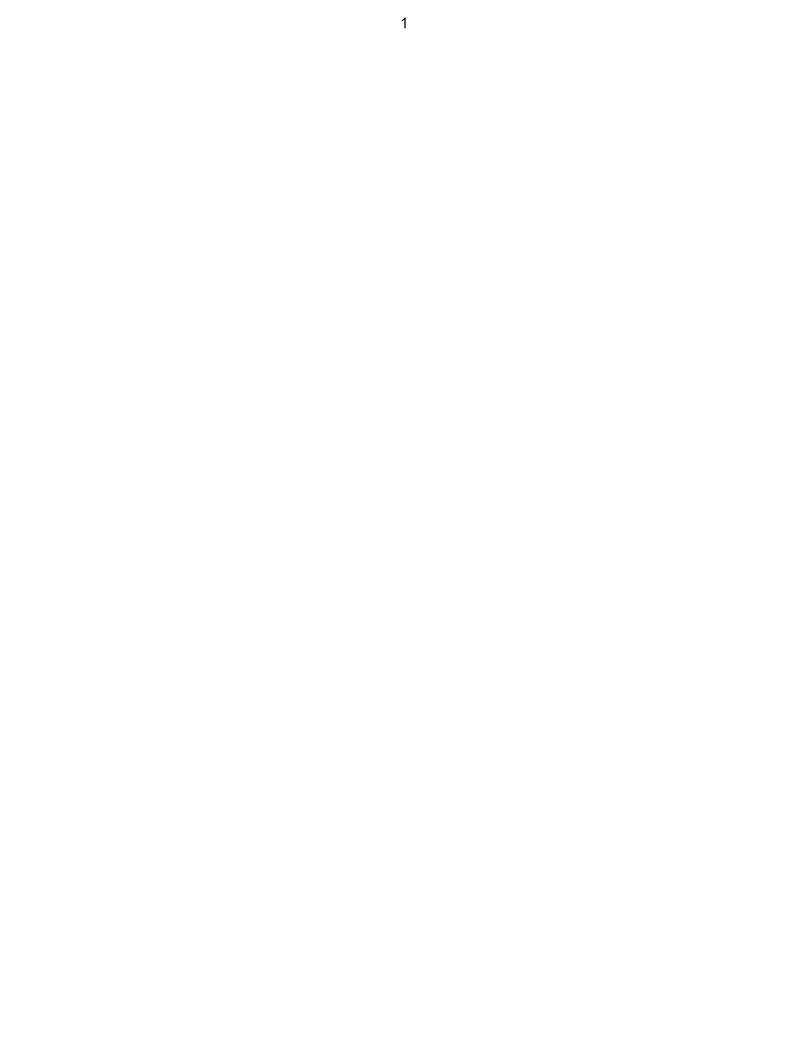
Laveena Nabar Human Resources

P.S: Date format to be read as MM/DD/YYYY. Print only, if required











Regd. Office: Wells Fargo Centre, Building 1A, Divyasree NSL SEZ, Survey No. 66/1, Raidurga Village, Serilingampalli, Hyderabad, India - 500032 91 40 4023 1000, 91 40 4023 1100 (Fax) CIN: U72200TG2006PTC051001

Wfindia.legal@wellsfargo.com

00102000110051001

Wells Fargo International Solutions Private Ltd (Formerly Wells Fargo EGS (India) Private Ltd) Wells Fargo Center, Embassy Tech Village (SEZ), Devarabeesanahalli, Outer Ring Road, Varthur Hobli, Bengaluru -560103, India 91 80 4397 4000, 91 80 4397 4100 (Fax)

August 05, 2022

Intern Name: Shubhra Jain

Intern ID: 2075259

Re: Certificate of completion of Internship

Dear Shubhra,

This is to certify that you have successfully completed the internship and project assigned to you during the period starting from Jun 06, 2022 till August 05, 2022 ("Internship Duration"). Pursuant to completion of Internship Duration, we hereby relieve you from duties assigned to you, except those of confidentiality obligations agreed during your Internship Duration, after close of working hours of LWD.

We request you to kindly note that our commitment to relieve you is subject to you completing the exit formalities per the company policy.

We wish you the very best in your career.

Please contact Indiafinalsettlement@wellsfargo.com if you have any questions on the exit process.

Sincerely, For Wells Fargo International Solutions Private Ltd

Durgesh Nagarkatte Vice President – HR

- Com

J.P.Morgan

JPMC Employee ID: W602304

1 August 2022

To Whom It May Concern

Dear Sir/Madam,

Re: Ms Shreya Mandal - Confirmation of Employment Details

This letter is to certify the below details for Ms Shreya Mandal, PAN GGXPM0027C

Employing Entity	: J. P. Morgan Services India Private Limited
Employment Status	: Intern and Full-Time
Date of Commencement	: 6 June 2022
Last Date of Employment	: 29 July 2022
Position	: Summer Intern
Department	: Corporate & Investment Bank

This reference is provided in the strictest confidence. Please note that the information provided is limited to that based on documented facts of which we are aware about regarding the named employee's employment with JPMorgan. JPMorgan accepts no liability in relation to any reliance placed upon it by the recipient or any third party.

If you have any questions in relation to the above, please do not hesitate to contact <u>hrsd.referencing.team@jpmorgan.com</u>.

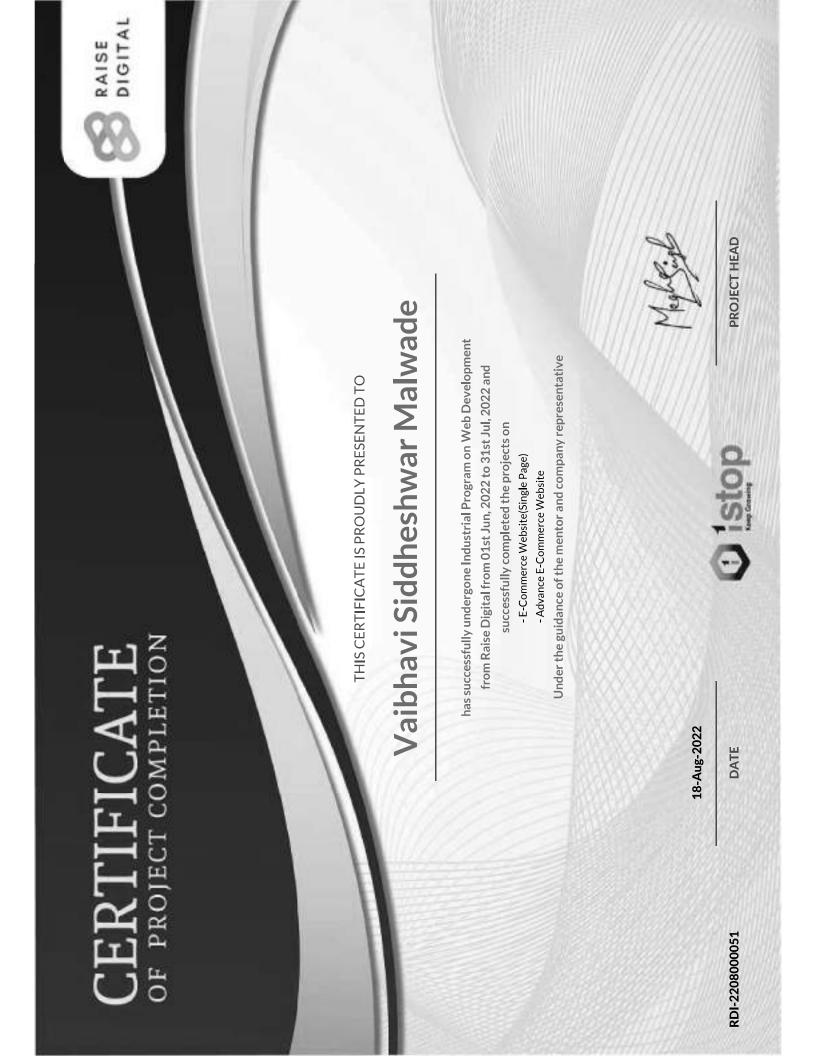
This is a computer generated statement and no signature is required.

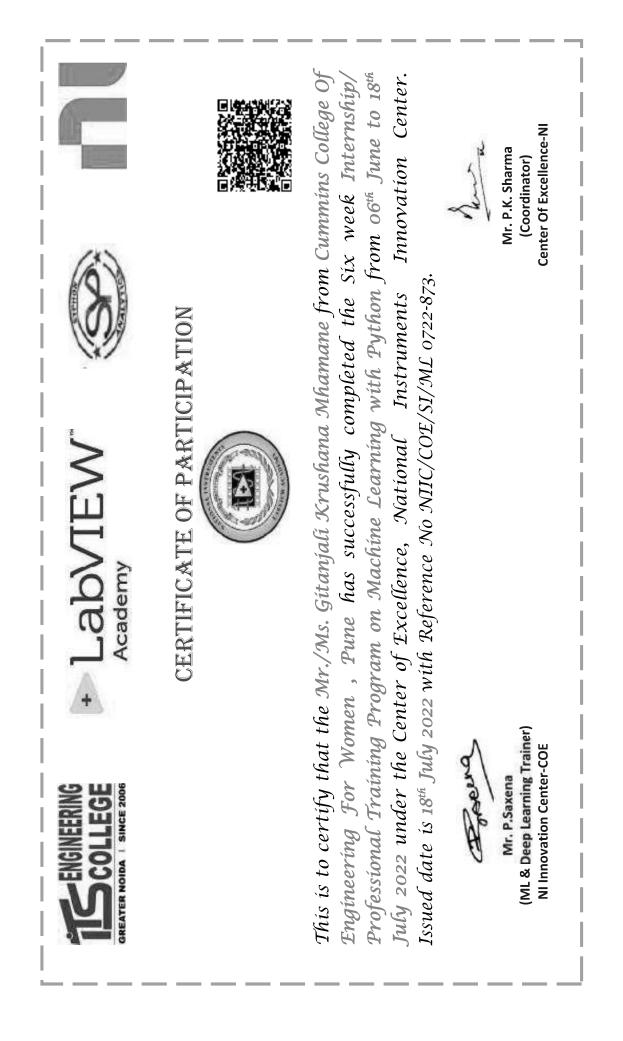
Registered Office : Prism Towers, Level Nos. 9 to 11, Link Road, Mindspace, Goregaon (West), Mumbai - 400 104, India. Telephone: 91 22 6125 0000 Facsimile: 91-22-6125 1901 J.P. Morgan Services India Private Limited CIN - U72900MH2000PTC124073

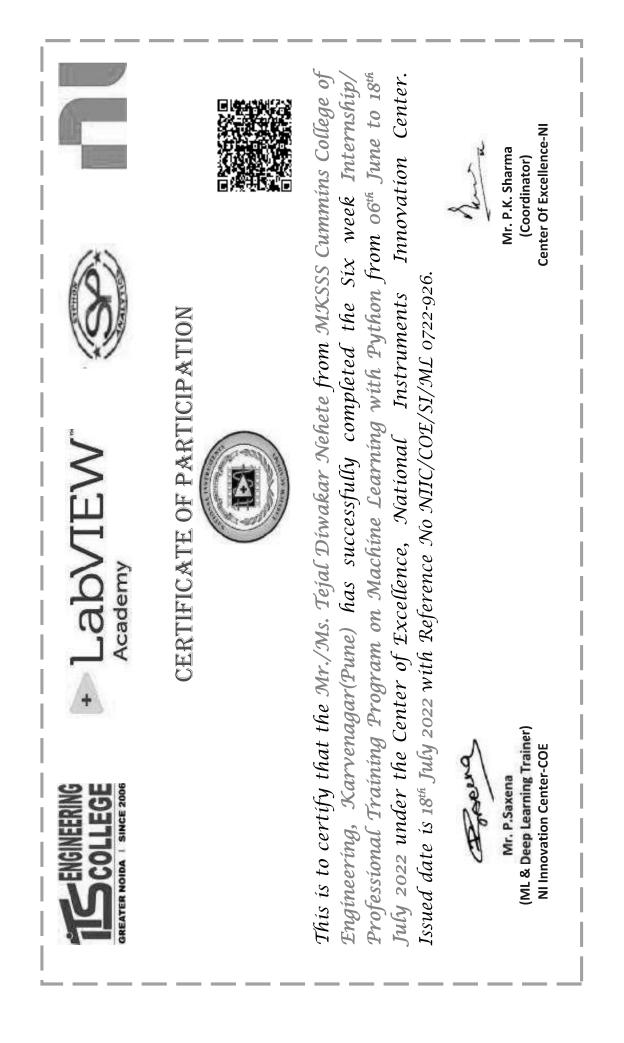
(- BOLT				training on Internet of	(BOLT)	
• 1)][[(•	Completion					pprov Jeleas	Pranav Pai Vernekar CEO, Bolt toT	To verify this certificate, please email support@boltiot.com with the code below	22E28A5B78B4327
	Certificate of	t Mr./Ms. <u>Isha Patil</u>	of CCOEW,Pune	and successfully completed the <u>2 Month</u>	· Learning.	(intervent)	Pranav Kundaikar CTO, Bolt IoT	To verify this certificate, please email su	C0468BA019D578422E28A5B78B4327
		This is to certify that Mr./Ms. Isha Patil	a student	has scored 84%	Things and Machine Learning.	26th Iul 2022	Date		

Stop Brown	CERTIFICATE OF PARTICIPATION	THIS CERTIFICATE IS PROUDLY PRESENTED TO	Aishwarya Machindra Kamble	participated in "Robotics" from 01st Jun, 2022 to 31st Jul, 2022 and successfully completed the program.	I5-Aug-2022 DATE DATE AL MATHEW.I OVERALL COORDINATOR
TECHNICHE			A		TIITG-2208000564

Lap Growing	CERTIFICATE OF PARTICIPATION	THIS CERTIFICATE IS PROUDLY PRESENTED TO	Pooja Vijay Khiradkar	participated in "Web Development" from 01st Jun, 2022 to 31st Jul, 2022 and successfully completed the program.	PAUL MATHEW. I OVERALL COORDINATOR
			Pooja Vi	participate from 01st J and successfu	20-Aug-2022 DATE
TECHNICHE					TIITG-2208001294









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CERTIFICATE **OF INTERNSHIP**

This is to certify that

Pandhare Jayashri

from Mksss Cummins College of Engineering for Women has successfully completed

Virtual Micro-Internship under _VOIS for Tech University Engagement Program's Innovation Marathon 2022

to develop a project on "Blood Buddy".

The internship is conducted from June 2022 to August 2022

Nagesh Singh Nagut

Director **Connecting Dreams Foundation**

Dr. Nilay Ranjan

Head Vodafone Idea Foundation & CSR Head Vodafone Idea Limited



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CERTIFICATE **OF INTERNSHIP**

This is to certify that

Talekar Daksha

from Mksss Cummins College of Engineering for Women has successfully completed

Virtual Micro-Internship under _VOIS for Tech University Engagement Program's Innovation Marathon 2022

to develop a project on "Blood Buddy".

The internship is conducted from June 2022 to August 2022

Dr. Nilay Ranjan

Head Vodafone Idea Foundation & CSR Head Vodafone Idea Limited

Nagesh Singh Compos N

Director **Connecting Dreams Foundation**



Internship Offer Letter

Ref: TCSL/AIP 2021-22/Winter/DT20218601179

Date: 12-Oct-2021

Darshana Pondkule Cummins College of Engineering for Women, Pune darshanapondkules@gmail.com

Dear Darshana Pondkule,

Sub: Internship Offer

We are pleased to offer you internship in Tata Consultancy Services (TCS) with the following terms and conditions:

- 1. The tentative start date is 18-Oct-2021 and end date is 30-Jun-2022. These dates can be changed in discussion with the Project Guide
- 2. You will be assigned a Project Guide under whose supervision you will work on the project assigned to you.
- 3. You shall complete your project in accordance with the requirements and guidance of the TCS Project Guide, and maintain qualitative standards as required. You will maintain the discipline, dignity, honor and goodwill of TCS.
- 4. The arrangement is not that of an employer and an employee and as such you shall not be eligible to any allowances or other benefits as may be available to the employees of TCS.
- 5. You will observe the rules & regulations and discipline of TCS, and also maintain complete confidentiality and secrecy of the matters pertaining to TCS and/or any data that has been provided to you in the course of your project work. The detailed terms of Confidentiality, Data and Intellectual Property Protection are enclosed as Annexure A. You will be permitted to attend any classes in the college / university at the discretion of the Project Guide if so called for during the period of your project assignment.
- 6. On completion of your internship, you will be required to submit a copy of your project report, which will be the sole property of TCS.
- 7. You shall not undertake any internship in parallel with this internship
- 8. In the event of any misconduct or breach of terms of this internship on the part of the Intern during the internship period, TCS reserves the right to terminate internship without any notice.
- 9. This offer of Internship will be governed as per the Laws of India.



You are required to sign and return a copy of this Internship Offer letter and the Annexure towards your acceptance of the terms and conditions stated therein.

For Tata Consultancy Services

Clarka Kalun

Chandra Koduru Head, Academic Interface Programme

Accepted,

Name of the Intern: Darshana Pondkule

Date:





Annexure A

Confidentiality, Data and Intellectual Property Protection

1. Confidential Information

"Confidential Information" shall mean any and all Inventions and Know-how, information and material of TCS (including for avoidance of doubt any Confidential Information of its Clients) that comes into the possession or know of the Intern and shall include the following:

- a) Any and all information processing programs, software, properties, items, information, data, material or any nature whatsoever or any parts thereof, additions thereto and materials related thereto, produced or created at any time by TCS or the Intern in the course of or in connection with or arising out of the Intern's association with TCS. Program/Software shall mean source code and/or machine instructions wherever resident and on whatever media and all related documentation and software,
- b) All other information and material of TCS relating to design, method of construction, manufacture, operation, specifications, use and services of the TCS equipment and components, including, but not limited to, engineering and laboratory notebooks, reports, process data, test data, performance data, inventions, trade secrets, systems, software, object codes, source codes, copyrighted matters, methods, drawings, computations, calculations, computer programs, narrations, flow charts and all documentation therefore and all copies thereof (including for avoidance of doubt any such material belonging to the Clients of TCS).
- c) Corporate strategies and other confidential and proprietary material and information, which could cause competitive harm to TCS if disclosed,
- d) Customer and prospective customer lists, and
- e) All other information and material, which may be created, developed, conceived, gathered or collected or obtained by the Intern in the course of or arising out of the association with TCS or while in or in connection with or for the purposes of his/her association with TCS or any of the operations and entrusted by TCS to the Intern.

2. Intern's Obligations

Intern agrees to treat the Confidential Information as strictly confidential and a trade secret of TCS. Intern agrees not to use, or cause to be used, or disclose or divulge or part with either directly or indirectly any Confidential Information for the benefit of or to any third parties except for or on behalf of or as directed or authorized by TCS or to a person



having a valid contract with TCS. Upon termination of employment, the Intern agrees to surrender to TCS all Confidential Information that he or she may then possess or have under his or her control.

3. Intellectual Property Rights

Intern agrees and confirms that all intellectual property rights in the Confidential Information shall at all times vest in and remain with or belong to TCS and Intern shall have no right title or claim of any nature whatsoever in the Confidential Information. Intern shall promptly disclose to an authorized officer of TCS all inventions, ideas, innovations, discoveries, improvements, suggestions, or reports and enhancements made, created, developed, conceived or devised by him or her arising out of his or her engagement with TCS, including in the course of provision of services to the Clients of TCS and Intern hereby agrees and confirms that all such intellectual property rights shall at all times vest in and remain vested in TCS and agrees to transfer and assign to TCS any interests Intern may have in such intellectual property rights including any interest in and to any domestic or foreign patent rights, trademarks, trade names copyrights and trade secret rights therein and any renewals thereof. On request of TCS, Intern shall execute from time to time, during or after the termination of his or her employment, such further instruments, including without limitations, applications for letters of patent, trademarks, trade names and copyrights or assignments thereof, as may be deemed necessary or desirable by TCS to perfect the title of TCS in the intellectual property rights and to effectuate the provisions hereof. All expenses of filling or prosecuting any application for patents, trademarks, trade names, or copyrights shall be borne solely by TCS, but Intern shall co-ordinate in filing and / or prosecuting any such applications. Intern hereby expressly waives any "artist's rights" or "moral rights", which Intern might otherwise have in such intellectual property rights.

4. Prior knowledge

Intern acknowledges that prior to his or her appointment by TCS, he or she had no knowledge of the Confidential Information of TCS and that such Confidential Information is of a confidential and secret character and is vital to the continued success of TCS's business. Intern further acknowledges that he or she is associated with TCS in a capacity in which he or she will become acquainted with all or part of such Confidential Information. In order to safeguard the legitimate interests of TCS in such Confidential Information, it is necessary for TCS to protect such Confidential Information by holding it secret and confidential.

TATA CONSULTANCY SERVICES



5. Use of Third-Party material

Intern expressly agrees that he or she shall not in the course of his or her association with TCS and while working on the premises or facilities of TCS or its Clients or in connection with the development of any intellectual property rights or work for or on behalf of TCS;

- a) Use any Third-Party material or intellectual property rights except those intellectual property rights provided by TCS or expressly authorised by TCS or without having proper authorisation or license or approval of the respective owner of such intellectual property rights.
- b) Participate in any activity for creation (including conception, design, development, testing, implementation, support or marketing) of any Intellectual Property for or on behalf of TCS or its affiliates if he or she has been exposed, directly or indirectly, to any Third-Party IP which is in the same subject area (such as research area, technology or application area) as, or which is same or similar to, the Intellectual Property or any portion thereof, to be so created, unless;
 - i. Intern has expressly declared to TCS in a prescribed form whether such exposure was owing to publicly available information or under and subject to any agreement; AND
 - ii. TCS has expressly confirmed to the Intern that TCS has proper authorization or license or approval of the respective owner of such Third-Party IP to use the same in Intellectual Property or portion thereof to be created and authorized in writing Intern's participation in such activity.
- c) Knowingly access, make reference to or use any Third-Party IP (except as permitted under Section 5(a), directly or indirectly, during the period of association with the creation (conception, design, development, testing, implementation, support or marketing) of TCS Intellectual Property or portion thereof, which is in the same subject area of TCS Intellectual Property or which is same or similar to such TCS Intellectual Property or portion thereof. In case, Intern access or is exposed to any such Third-Party IP during such association, Intern shall promptly bring it to the notice of TCS IP asset owner or TCS project manager in writing and immediately cease to participate in any such activity.

6. Security policies and Guidelines

- 6.1 Intern agrees to abide by and be bound by any and all policies, documents, guidelines and processes including IP, Information Security and Confidentiality of TCS in force from time to time whether expressly endorsed or not.
- 6.2 Intern acknowledge and agree that in the course of, and as a result of his/her engagement with TCS, Intern will have access to, obtain or come across personal



data or information of other TCS Associates or Clients, including without limitation, sensitive personal data or information (collectively "Personal Data and Information") within the meaning of the applicable Indian Law and Rules or any other applicable Law, directive or regulation anywhere in the world. In respect of any such Personal Data and Information accessed, obtained, acquired or processed by Intern for and on behalf of TCS, its affiliates or Clients, Intern undertake that he/she will:

- a) Process the Personal Data and Information only on behalf of TCS, its Affiliates or Clients, as the case may be, and only on and in accordance with instructions received from the data controller from time to time;
- b) Abide by such technical and organizational measures necessary to prevent the accidental or unlawful destruction or accidental loss, alteration, un-authorized disclosure or access to the Personal Data and Information;
- c) Promptly (and in any event within 24 hours of awareness) bring to notice of TCS or its Affiliates, as the case may be, of any actual or suspected incident of unauthorized or accidental disclosure of, or access to, the Personal Data and Information or other breach of this section (a "Security Breach");
- Promptly provide TCS with all information in Intern's notice, possession or control concerning any Security Breach and not make any public announcement regarding a Security Breach without TCS' prior written consent;
- e) Not do, or omit to do, anything, which would cause TCS or any of its employees, officers or agents to be in breach of its obligations under any privacy or data protection policy, regulation or legislation;
- f) Upon expiry or termination of Intern's engagement with TCS, return all copies of the Personal Data and Information to TCS in Intern's possession or control; and
- g) Promptly bring to TCS' notice of any request received from a data subject to have access to his/her Personal Data and Information or of any other communication relating to the access, use or processing of any Personal Data and Information (including any notice from the regulatory body) and fully cooperate and assist TCS in relation to any such request or communication.
- 6.3 Intern expressly consent that TCS and/or its affiliates may collect, use, transfer, retain or otherwise process Intern's Personal Data and Information in connection with his/her engagement with TCS, in accordance with the then / current TCS policies and procedures and applicable privacy and data protection legislation. TCS may use Third-Party services or sub-contractors to collect or otherwise process Intern's Personal Data and Information for which TCS shall remain responsible for

TATA CONSULTANCY SERVICES



such Third-Party services provider or sub-contractor's compliance with TCS' obligations hereunder.

7. Working in SBWS[™] Framework

Intern may be required to work in TCS or its Client's premises or from home (remote working) as per the directions of supervisor and / or the provisions of the applicable policy. Intern understands that working in this hybrid environment may have higher confidentiality and information security risks. Intern acknowledges that when working remotely the Intern:

- a) will work only in a private, secured work area in compliance with the guidelines issued and amended from time to time.
- b) will comply with and work in a manner consistent with TCS Data Privacy and Security Policies/Protocols.
- c) will bring to the notice of HR of the Unit to any circumstances that prevent Intern from working in a manner consistent with TCS data privacy and security policies/ protocols.
- d) will inform the HR of the Unit if the Intern shares a home with any family member or an individual who is employed by a competitor of TCS or TCS client the Associate is assigned to, or if any other circumstances at home exist which implicates the TCS Code of Conduct Conflict of Interest provision;
- e) will ensure utmost care and adhere to Confidentiality, IP Protection / Non-Disclosure obligations.
- f) will be using the Company allotted laptop or similar authorized computing device (together called "official asset") only to connect to TCS network/customer network through authorized means (or the Customer provided laptop to access the customer network if so, mandated by the Customer).
- g) will not allow anybody to share the official asset being used
- h) where allowed to use personal workstation/laptop or similar computing device (together called "personal asset") to connect to TCS network/customer network, Intern will ensure that he/she fully complies with obligations under this Confidentiality, IP Protection / Non-Disclosure Agreement and adheres to the security best practices that is generally followed and ensure that Intern's access to TCS / TCS Client systems is in line with the approved model. The Intern further agrees that by seeking permission to use a personal asset, the Intern implicitly authorizes the Company to have unhindered access to run scans / forensics, should there be justified reasons to do so.

TATA CONSULTANCY SERVICES



8. Restriction on Intern's Rights

Intern agrees that he or she shall not make, have made, replicate, reproduce, use, sell, incorporate or otherwise exploit, for his or her own use or for any other purpose, any of the Confidential Information including intellectual properties of TCS that is or may be revealed to him or her by TCS or which may in the course of his or her employment with TCS come into his or her possession or knowledge unless specifically authorized to do so in writing by TCS.

9. No License

TCS and Intern agree that no license under any patent or copyright now existing or hereafter obtained by TCS is granted, agreed to be granted, or implied by the terms of this Agreement, or by the disclosure to Intern of the Confidential Information.

10. Equitable Rights

Intern acknowledges that any Confidential Information that comes into the possession and / or knowledge of Intern is of a unique, highly confidential and proprietary nature. It is further acknowledged by Intern that the disclosure, distribution, dissemination and / or release by Intern of the Confidential Information without the prior written consent of TCS or any breach of the Confidentiality Clause by Intern will cause TCS to suffer severe, immediate and irreparable damage and that upon any such breach or any threat thereof, TCS shall without prejudice to any other remedies available to it, be entitled to appropriate equitable relief including the relief of specific performance and injunctive relief, in addition to whatever remedies it might have at law.

11. General

- a) The provisions hereof shall be interpreted, determined and enforced in accordance with the laws of India.
- b) In the event of any dispute or disagreement over the interpretation of any of the terms herein contained or may claim or liability of any party, the same shall be referred to a person to be nominated by TCS, whose decision shall be final and binding upon the parties hereto. Subject to the above, the arbitration shall be governed by the Arbitration and Conciliation Act, 1996 or any modifications or re-enactment thereof. Intern confirms that the fact that the arbitrator shall be a nominee of TCS shall not be a ground for objecting to such arbitration or challenging the decision of the arbitrator. The venue of arbitration shall be Mumbai. Subject to the



above arbitration clause, the Parties agreed to the binding jurisdiction of the Courts at Mumbai under the laws of India.

- c) If any provision hereof shall be found by a judicial tribunal to be contrary to governing law, it shall be deemed null and void without annulling or rendering invalid the remainder of the Agreement and if the invalid portion is such that the remainder cannot be sustained without it, the Parties herein shall find a suitable replacement to the invalid portion that shall be legally valid.
- d) This Confidentiality clause along with other documents executed by Intern or referenced in any such documents constitutes the entire understanding between the parties and supersedes all prior agreements and understandings pertaining to the subject matter thereof. No delay of omission of either Party in exercising or enforcing any of their rights or remedies hereunder shall constitute a waiver thereof.
- e) This Confidentiality clause may not be amended except in writing signed by authorized representatives of both parties.
- f) The obligations of Intern in terms of this Confidentiality clause shall continue during the term of or in the course of the internship of the Intern with TCS and shall continue thereafter in perpetuity.

TATA CONSULTANCY SERVICES



Xebrium Software Pvt. Ltd.

OFFER LETTER

15th Sept 2021

To, Manasi Rasane.

It is our pleasure to extend the following offer of Internship to you on behalf of Xebrium Software (P) Ltd, further to the discussions you had with us. You are expected to join duty from 4^{th} Oct 2021.

You are appointed here as a "**Intern**" Your monthly stipend will be Rs. 10,000/-(Ten Thousand Only).

You will need to submit following documents at the time of joining:

- 1) Two Passport size photographs
- 2) Self attested photo copy Address proof (e.g. Driving License, Adhar Card, Passport)
- 3) Self attested photocopy of PAN Card.
- 4) Educational documents -10th,12th & Degree certificates. (Xerox copy)

Regards,

Varada Patwardhan Director Xebrium Software Pvt.Ltd. Ref: ABO/Intern/M.tech/2021/29 Date: 09-08-2021

Rutuja Shinde 1754, Rajmudra Computers At/Post/Tahsil - Akole, District - Ahmednagar

Dear Rutuja,

Thank you for your recent conversation with our Cummins representative. They were impressed with your background, accomplishments and experience. We also believe you would fit well into the Cummins culture. As a result, Cummins is pleased to extend you an offer of employment.

Our culture of "Working Right" is one that provides you with global opportunities to develop your career, make your community a better place and work with the most innovative people, processes and ideas in the world today.

Every day, you will be counted on to make people's lives better by doing some extraordinary things as well as simply being dependable. Our ethics, core values, performance culture and commitment is to develop technology that provides value to our customers, as well as our environment.

If you have any additional questions about the job opportunity or work assignment please contact your HR representative listed below.

Global growth...career development...your future career opportunities. We look forward to welcome you to Cummins in India.

OFFER SUMMARY

Intern Name: RUTUJA SHINDE HR Representative: Suzan A Jadhav HR Email: suzan.jadhav@cummins.com Business Unit: CEBU Work Location: Kothrud,Pune Monthly Stipend: INR 23,000 per month

INTERNSHIP GUIDELINES

- 1. Your internship duration will be from 16th August 2021 to 15th June 2022.
- 2. You shall, at all times, maintain complete secrecy about the Company's business affairs, inventions, techniques and processes of manufacturing and management and the like, which may come to your knowledge during your internship period in the organization.
- 3. You will be required to submit the project report on completion of your internship.
- 4. You will be reimbursed the 2 tier AC Train / Bus return fare from the institute to the project location on submission of proofs.
- 5. You will be required to make your own arrangements for accommodation and daily travel to the location of internship.
- 6. You may choose to avail of our canteen facilities on the payment of a fixed amount.
- 7. Your internship would be governed by the Company's Rules and Regulations in force currently and as applicable from time to time.
- 8. You shall maintain and render an account of all such Company properties and equipment entrusted to you and shall be liable for the same.
- 9. You will not resort to / indulge in use of tobacco in any form, i.e. smoking, chewing and snuffing on the premises of the company.
- 10. Leave Guideline -

Internship Duration	Number of Earned Leaves (EL) Per Month	Leaves availed post exhaustion of earned leave
Less than or equal to 3 months	0	Stipend to be deducted
Greater than 3 months	1	Stipend to be deducted

Thanking You

Prabeer Kumar Maiti Line HR Leader EBU, CBU & TCPL Engg.



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Please note:-

- ELs are not encashable or transferable if not availed during the course of internship.
- **DePauw interns** would get 5 EL during their course of internship.
- ELs are over and above the weekly offs and paid holidays as governed by the company policy

Please sign the duplicate copy of this letter in token of acceptance of the above terms and conditions, and, return the same to us.

TERMS AND CONDITIONS OF APPOINTMENT

- 1. Your services would be governed by the Company's rules and regulations in force currently and as applicable from time to time. The facilities, amenities and benefits provided to interns in excess of the statutory requirements do not form a part of the conditions of service and are subject to change or be reduced at the discretion of the Management.
- 2. You are liable to be transferred to any of the Company's establishments which may be set up in any part of the country. On your transfer, you will be governed by the Company's rules and regulations applicable to that establishment.
- 3. You will be entitled to leave (vacation) in accordance with the Company guideline.
- 4. During the period of your employment with the Company you shall not engage in any other profession or business, publish any articles or deliver any talk pertaining to your profession or be associated with any organization pertaining to your profession, without the written consent of the Company.
- 5. You shall, at all times, maintain complete secrecy about the Company's business affairs, Inventions, techniques and processes of manufacturing and management and the like which may come to your knowledge during your internship.
- 6. You shall inform the Company immediately regarding any inventions, patents, processes etc. that you may make or discover in the course of your employment and the Company shall have the right to take over the patent, process or invention on payment of such compensation as may be considered appropriate by the Company.

You shall promptly disclose in confidence to the Company all Inventions that you make or conceive or first reduce to practice or create, either alone or jointly with others, during the term of your employment. You hereby undertake that all such Inventions shall vest exclusively and perpetually with the Company and you shall have no claims or rights to such Inventions.

7. You agree to execute a separate 'assignment deed' from time to time, as and when required by the Company, for the purpose of assignment of all the Inventions in favour of the Company. You shall at all times co-operate with the Company and its agents and/or attorneys as may be necessary to perfect, maintain, defend and enforce the



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patenting of the Inventions including the future developments / improvements / modifications thereof, and to perform all actions and execute all such deeds and documents as shall be necessary to formalize the vesting of the legal and beneficial title/ownership of the Company thereto.

TERMS AND CONDITIONS OF APPOINTMENT

You for the purpose of giving to the Company, the full benefit of the provisions of this Clause, hereby agree to issue an irrevocable and indefinite power of attorney to the following effect:

"Where Cummins Technologies India Private Limited is unable, after contacting **RUTUJA SHINDE** either in person or by registered post addressed to the last known address of such **RUTUJA SHINDE** as in Cummins Technologies India Private Limited's records, to secure **RUTUJA SHINDE**'s signature for any reason whatsoever, **RUTUJA SHINDE** irrevocably designates and appoints Cummins Technologies India Private Limited and its duly authorized officers and agents, as **RUTUJA SHINDE**'s agent and attorney-in-fact, to act for and on behalf of **RUTUJA SHINDE**, to execute and file any application(s) or document and to do all other lawfully permitted acts to further the prosecution, issuance, and enforcement of letters patent, copyright or other analogous rights or protections, with the same legal force and effect as if executed by **RUTUJA SHINDE**."

- 8. You recognize the right of the Company to commercially exploit and market the Inventions and any future development / modification / improvement thereof in all formats/applications all over the world and waives any future claim or interest in the ownership or proceeds from commercialization of such Intellectual Property developments, modifications, or improvements.
- 9. Injunctive Relief You agree that in the event of breach or threatened breach of any of the above clauses, the Company shall suffer irreparable injury and the Company shall be entitled to specific performance of your obligations as well as such further injunctive relief as may be granted by any court of competent jurisdiction, without prejudice to any other relief, monetary or otherwise as the Company may be entitled under the applicable laws.
- 10. You shall maintain and render an account of all such Company properties and equipment entrusted to you and shall be liable for the same.
- 11. You will not resort to / indulge in use of tobacco in any form, i.e. smoking, chewing and snuffing on the premises of the company.
- 12. You or the Company can terminate the service contract without assigning any reason, by a written notice of one month or payment of salary and allowances (Guaranteed Cash Components) in lieu thereof.
- 13. You are required to keep the Company informed of any change pertaining to any of the declarations made by you at the time of your internship.
- 14. Your personal data may be stored on secured servers and or computer networks in or out of India protected as per Cummins IT policies in force regarding access and data



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security. You hereby agree to permit access to your personal data to authorized Cummins Officials in India and abroad for official purposes from time to time.

- 15. Confidentiality Obligations You shall treat all Confidential Information acquired during the course of your employment and the Intellectual Property of the Company, as strictly confidential, and shall not disclose it to any third party, or make use of it, without the prior written and express consent of the Company. This obligation of yours shall persist during the term of your internship and also after expiry or termination or cessation of your internship with the Company for any reason whatsoever.
- 16. Definitions: For the purposes of these terms and conditions, the following meaning shall hold: "Confidential Information" shall mean any trade secrets or confidential or secret information, whether marked or unmarked, in any media relating to the business, technical processes designs or finances of the Company and its suppliers agents.

technical processes, designs or finances of the Company and its suppliers, agents, distributors, clients or customers or any confidential or secret information connected with the services provided or products manufactured, marketed or under development by the Company and in particular shall include (but not be limited to) Inventions, research papers, computer models generated by the Intern or provided to the Employee during the internship, business plans, marketing plans, budgets and costing, any information regarding Intellectual Property, or any information received from a third Party that is protected by a duty of confidence.

"Intellectual Property" shall mean patents and all relevant pending applications; trademarks, trade names, logos or other information which may identify business operators; copyrights; know-how; trade secrets; designs; computer, data and documentation; domain names; and other intellectual properties.

"Invention" shall mean all inventions, improvements, designs, original works of authorship, research data, formulas, processes, compositions of matter, computer software programs, databases, mask works, and trade secrets and shall also include any discoveries that the Intern makes or conceives or first reduces to practice or creates, either alone or jointly with others, during the period of his internship with the intern/Company, whether or not made during or after normal business hours and whether or not patentable, copyrightable or protectable as trade secrets.

- 17. You shall not give any press release or other external communication regarding any part of this agreement, including any general statements as to the existence of a relationship, except with the prior written consent of the Company.
- 18. Any dispute or difference arising out of or related to your employment / internship shall have jurisdiction of Court of Pune (Maharashtra) only.



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CUMMINS CODE OF BUSINESS CONDUCT

OUR VISION

Innovating for our customers to power their success

OUR MISSION

Making people's lives better by powering a more prosperous world

Cummins is a value based organization. Our core values are -

1. INTEGRITY

Doing what you say you will do and doing what is right

2. DIVERSITY & INCLUSION

Valuing and including our differences in decision making is our competitive advantage

3. CARING

Demonstrating awareness and consideration for the wellbeing of others

4. EXCELLENCE

Always delivering superior results

5. TEAMWORK

Collaborating across teams, functions, businesses and borders to deliver the best work

• Our commitment to integrity means that we will exceed the minimum requirements of the law and industry practices. We feel strongly about our written policies and will not tolerate violations at any level of the Company.

CONDUCT REGARDING OUR CUSTOMERS, SUPPLIERS AND COMPETITORS Treatment of Customers

We are dedicated to exceeding the expectations of our customers better than our competitors. Our products, information and support are designed to give our customers a competitive advantage **Competitors**

Cummins competes vigorously with our competitors, but always with integrity. Employees should not disparage Cummins competitors or their products. Generally, an employee should not accept confidential information about a competitor.



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Government Contracts

As since the Company is a supplier to federal, state and local governments around the world, Cummins employees must comply with all laws and regulations relating to government contracts and cooperate fully with investors and auditors who require information in connection with these contracts.

Payments to Government Officials

Cummins policy must be closely followed while making payments to individuals outside the normal course of business. In no event should a payment be made that violates the Foreign Corrupt Practices Act of 1977, which is detailed in the full policy.

Dealing with Suppliers

If an employee or his/her family member has a relationship with a current or potential supplier, there exists the potential for a conflict of interest. So, the employee should not participate in any decisions related to the supplier or potential supplier, and should inform his/her supervisor of the relationship.

Meals, Gifts and Discounts

Generally, Cummins employees should refrain from accepting gifts. However, if a refusal to accept a present offends the other party, then a gift of nominal value may be accepted. If it is a high value, then it should be reported. Cummins employees should not accept discounts on personal goods that are linked to actual or potential business dealings.

Definition and treatment of expenses listed below are available in the detailed Code of Conduct policy which you need to study and follow:

- Dining: With Business Colleagues, including Hosting Conferences
- Business Entertainment
- Employee Recognition
- Outside Employment
- Employees should not work for a Cummins customer, supplier, or competitor. Employees may not hold other full or part-time positions or directorships outside the Company unless the job is permitted by the employee's manager and is disclosed in the annual Ethics Certification Statement.
- Trading in Cummins Securities
- Illegal trading in Cummins stocks and securities is not permitted. To avoid problems with stock purchases or sales, employees should refer to the details mentioned in the Cummins Code of Conduct.
- CONDUCT REGARDING OUR EMPLOYEES
- Treatment of Each Other at Work
- To maintain an atmosphere of respect, no one should make comments that are embarrassing or demeaning to another. An employee who takes part in harassing behavior that creates a hostile or offensive work environment will be subject to severe disciplinary action. Our notolerance policy also applies to customers, suppliers and contractors.
- Health, Safety and the Environment
- Prevention of occupationally related injuries and illnesses is the responsibility of every Cummins employee. In addition, all employees are expected to immediately report unsafe or hazardous working conditions to a supervisor.
- Alcohol and Illegal Drugs in the Workplace
- Illegal drug or alcohol use on the job is not permitted. Disciplinary procedures for violation of this policy could include termination, even for a first offense.
- Community Activities



Dependable People.

Working Right.

• The Company does not dictate the position employees should take on community or public issues. However, when an official Company position is necessary or desirable, only the appropriate Cummins officer can issue a statement.

• CONDUCT REGARDING OUR SHAREHOLDERS

- Financial Records
- No false or misleading entries or failure to make required entries is permitted for any reason. Each employee must report all corporate transactions accurately, including receipts, disbursements and the purpose of the transactions.
- CONDUCT REGARDING OUR PROPERTY
- Information Security
- should not attempt to access secret/ restricted data unless permitted by the owner of that information.
- Computer Equipment and E-Mail
- The Company's computer hardware, software and data may be used only by authorized personnel for Company business. All licensing provisions and copyright restrictions are respected. Some personal use is allowed if it does not interfere with the employee productivity or pre-empt any business activity.
- CONDUCT REGARDING POLITICAL CAMPAIGNS AND THE MEDIA

Name:

- Individual Responsibility
- No Company property can be used to support any candidate's political campaign, unless directed by the Cummins Political Action Committee. Employees may not conduct campaign activities during regular working hours.
- Reporting Concerns
- If an employee wishes to report any code compliance matters, s/he may Contact local Human Resource department or Legal department for any assistance or ethics.cummins.com or such reports may be made anonymously by calling the confidential Ethics Help Line at the appropriate number for the employee's location. No employee will suffer any reprisal, retaliation or career disadvantage for reporting questionable behavior.
- This is an extract of the *Code of Conduct* and it is your responsibility to understand the detailed code immediately after joining Cummins. It is a pre-condition of your employment with the company that you adhere to the Cummins Code of Conduct and Treatment of Each other Policy.

Accepted

Signature

Date:....

This is an extract of the *Code of Conduct* and it is your responsibility to understand the detailed code immediately after joining Cummins. It is a pre-condition of your employment with the company that you adhere to the *Cummins Code of Conduct and Treatment of Each other Policy*.

Accepted



Internship Offer Letter

Ref: TCSL/AIP 2021-22/Winter/DT20218601147

Date: 12-Oct-2021

Kajal Bobade Cummins College of Engineering for Women, Pune kajaldhavale1@gmail.com

Dear Kajal Bobade,

Sub: Internship Offer

We are pleased to offer you internship in Tata Consultancy Services (TCS) with the following terms and conditions:

- 1. The tentative start date is 18-Oct-2021 and end date is 30-Jun-2022. These dates can be changed in discussion with the Project Guide
- 2. You will be assigned a Project Guide under whose supervision you will work on the project assigned to you.
- 3. You shall complete your project in accordance with the requirements and guidance of the TCS Project Guide, and maintain qualitative standards as required. You will maintain the discipline, dignity, honor and goodwill of TCS.
- 4. The arrangement is not that of an employer and an employee and as such you shall not be eligible to any allowances or other benefits as may be available to the employees of TCS.
- 5. You will observe the rules & regulations and discipline of TCS, and also maintain complete confidentiality and secrecy of the matters pertaining to TCS and/or any data that has been provided to you in the course of your project work. The detailed terms of Confidentiality, Data and Intellectual Property Protection are enclosed as Annexure A. You will be permitted to attend any classes in the college / university at the discretion of the Project Guide if so called for during the period of your project assignment.
- 6. On completion of your internship, you will be required to submit a copy of your project report, which will be the sole property of TCS.
- 7. You shall not undertake any internship in parallel with this internship
- 8. In the event of any misconduct or breach of terms of this internship on the part of the Intern during the internship period, TCS reserves the right to terminate internship without any notice.
- 9. This offer of Internship will be governed as per the Laws of India.



You are required to sign and return a copy of this Internship Offer letter and the Annexure towards your acceptance of the terms and conditions stated therein.

For Tata Consultancy Services

Clarka Kalun

Chandra Koduru Head, Academic Interface Programme

Accepted,

Name of the Intern: Kajal Bobade

Date:





Annexure A

Confidentiality, Data and Intellectual Property Protection

1. Confidential Information

"Confidential Information" shall mean any and all Inventions and Know-how, information and material of TCS (including for avoidance of doubt any Confidential Information of its Clients) that comes into the possession or know of the Intern and shall include the following:

- a) Any and all information processing programs, software, properties, items, information, data, material or any nature whatsoever or any parts thereof, additions thereto and materials related thereto, produced or created at any time by TCS or the Intern in the course of or in connection with or arising out of the Intern's association with TCS. Program/Software shall mean source code and/or machine instructions wherever resident and on whatever media and all related documentation and software,
- b) All other information and material of TCS relating to design, method of construction, manufacture, operation, specifications, use and services of the TCS equipment and components, including, but not limited to, engineering and laboratory notebooks, reports, process data, test data, performance data, inventions, trade secrets, systems, software, object codes, source codes, copyrighted matters, methods, drawings, computations, calculations, computer programs, narrations, flow charts and all documentation therefore and all copies thereof (including for avoidance of doubt any such material belonging to the Clients of TCS).
- c) Corporate strategies and other confidential and proprietary material and information, which could cause competitive harm to TCS if disclosed,
- d) Customer and prospective customer lists, and
- e) All other information and material, which may be created, developed, conceived, gathered or collected or obtained by the Intern in the course of or arising out of the association with TCS or while in or in connection with or for the purposes of his/her association with TCS or any of the operations and entrusted by TCS to the Intern.

2. Intern's Obligations

Intern agrees to treat the Confidential Information as strictly confidential and a trade secret of TCS. Intern agrees not to use, or cause to be used, or disclose or divulge or part with either directly or indirectly any Confidential Information for the benefit of or to any third parties except for or on behalf of or as directed or authorized by TCS or to a person



having a valid contract with TCS. Upon termination of employment, the Intern agrees to surrender to TCS all Confidential Information that he or she may then possess or have under his or her control.

3. Intellectual Property Rights

Intern agrees and confirms that all intellectual property rights in the Confidential Information shall at all times vest in and remain with or belong to TCS and Intern shall have no right title or claim of any nature whatsoever in the Confidential Information. Intern shall promptly disclose to an authorized officer of TCS all inventions, ideas, innovations, discoveries, improvements, suggestions, or reports and enhancements made, created, developed, conceived or devised by him or her arising out of his or her engagement with TCS, including in the course of provision of services to the Clients of TCS and Intern hereby agrees and confirms that all such intellectual property rights shall at all times vest in and remain vested in TCS and agrees to transfer and assign to TCS any interests Intern may have in such intellectual property rights including any interest in and to any domestic or foreign patent rights, trademarks, trade names copyrights and trade secret rights therein and any renewals thereof. On request of TCS, Intern shall execute from time to time, during or after the termination of his or her employment, such further instruments, including without limitations, applications for letters of patent, trademarks, trade names and copyrights or assignments thereof, as may be deemed necessary or desirable by TCS to perfect the title of TCS in the intellectual property rights and to effectuate the provisions hereof. All expenses of filling or prosecuting any application for patents, trademarks, trade names, or copyrights shall be borne solely by TCS, but Intern shall co-ordinate in filing and / or prosecuting any such applications. Intern hereby expressly waives any "artist's rights" or "moral rights", which Intern might otherwise have in such intellectual property rights.

4. Prior knowledge

Intern acknowledges that prior to his or her appointment by TCS, he or she had no knowledge of the Confidential Information of TCS and that such Confidential Information is of a confidential and secret character and is vital to the continued success of TCS's business. Intern further acknowledges that he or she is associated with TCS in a capacity in which he or she will become acquainted with all or part of such Confidential Information. In order to safeguard the legitimate interests of TCS in such Confidential Information, it is necessary for TCS to protect such Confidential Information by holding it secret and confidential.

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5. Use of Third-Party material

Intern expressly agrees that he or she shall not in the course of his or her association with TCS and while working on the premises or facilities of TCS or its Clients or in connection with the development of any intellectual property rights or work for or on behalf of TCS;

- a) Use any Third-Party material or intellectual property rights except those intellectual property rights provided by TCS or expressly authorised by TCS or without having proper authorisation or license or approval of the respective owner of such intellectual property rights.
- b) Participate in any activity for creation (including conception, design, development, testing, implementation, support or marketing) of any Intellectual Property for or on behalf of TCS or its affiliates if he or she has been exposed, directly or indirectly, to any Third-Party IP which is in the same subject area (such as research area, technology or application area) as, or which is same or similar to, the Intellectual Property or any portion thereof, to be so created, unless;
 - i. Intern has expressly declared to TCS in a prescribed form whether such exposure was owing to publicly available information or under and subject to any agreement; AND
 - ii. TCS has expressly confirmed to the Intern that TCS has proper authorization or license or approval of the respective owner of such Third-Party IP to use the same in Intellectual Property or portion thereof to be created and authorized in writing Intern's participation in such activity.
- c) Knowingly access, make reference to or use any Third-Party IP (except as permitted under Section 5(a), directly or indirectly, during the period of association with the creation (conception, design, development, testing, implementation, support or marketing) of TCS Intellectual Property or portion thereof, which is in the same subject area of TCS Intellectual Property or which is same or similar to such TCS Intellectual Property or portion thereof. In case, Intern access or is exposed to any such Third-Party IP during such association, Intern shall promptly bring it to the notice of TCS IP asset owner or TCS project manager in writing and immediately cease to participate in any such activity.

6. Security policies and Guidelines

- 6.1 Intern agrees to abide by and be bound by any and all policies, documents, guidelines and processes including IP, Information Security and Confidentiality of TCS in force from time to time whether expressly endorsed or not.
- 6.2 Intern acknowledge and agree that in the course of, and as a result of his/her engagement with TCS, Intern will have access to, obtain or come across personal



data or information of other TCS Associates or Clients, including without limitation, sensitive personal data or information (collectively "Personal Data and Information") within the meaning of the applicable Indian Law and Rules or any other applicable Law, directive or regulation anywhere in the world. In respect of any such Personal Data and Information accessed, obtained, acquired or processed by Intern for and on behalf of TCS, its affiliates or Clients, Intern undertake that he/she will:

- a) Process the Personal Data and Information only on behalf of TCS, its Affiliates or Clients, as the case may be, and only on and in accordance with instructions received from the data controller from time to time;
- b) Abide by such technical and organizational measures necessary to prevent the accidental or unlawful destruction or accidental loss, alteration, un-authorized disclosure or access to the Personal Data and Information;
- c) Promptly (and in any event within 24 hours of awareness) bring to notice of TCS or its Affiliates, as the case may be, of any actual or suspected incident of unauthorized or accidental disclosure of, or access to, the Personal Data and Information or other breach of this section (a "Security Breach");
- Promptly provide TCS with all information in Intern's notice, possession or control concerning any Security Breach and not make any public announcement regarding a Security Breach without TCS' prior written consent;
- e) Not do, or omit to do, anything, which would cause TCS or any of its employees, officers or agents to be in breach of its obligations under any privacy or data protection policy, regulation or legislation;
- f) Upon expiry or termination of Intern's engagement with TCS, return all copies of the Personal Data and Information to TCS in Intern's possession or control; and
- g) Promptly bring to TCS' notice of any request received from a data subject to have access to his/her Personal Data and Information or of any other communication relating to the access, use or processing of any Personal Data and Information (including any notice from the regulatory body) and fully cooperate and assist TCS in relation to any such request or communication.
- 6.3 Intern expressly consent that TCS and/or its affiliates may collect, use, transfer, retain or otherwise process Intern's Personal Data and Information in connection with his/her engagement with TCS, in accordance with the then / current TCS policies and procedures and applicable privacy and data protection legislation. TCS may use Third-Party services or sub-contractors to collect or otherwise process Intern's Personal Data and Information for which TCS shall remain responsible for

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such Third-Party services provider or sub-contractor's compliance with TCS' obligations hereunder.

7. Working in SBWS[™] Framework

Intern may be required to work in TCS or its Client's premises or from home (remote working) as per the directions of supervisor and / or the provisions of the applicable policy. Intern understands that working in this hybrid environment may have higher confidentiality and information security risks. Intern acknowledges that when working remotely the Intern:

- a) will work only in a private, secured work area in compliance with the guidelines issued and amended from time to time.
- b) will comply with and work in a manner consistent with TCS Data Privacy and Security Policies/Protocols.
- c) will bring to the notice of HR of the Unit to any circumstances that prevent Intern from working in a manner consistent with TCS data privacy and security policies/ protocols.
- d) will inform the HR of the Unit if the Intern shares a home with any family member or an individual who is employed by a competitor of TCS or TCS client the Associate is assigned to, or if any other circumstances at home exist which implicates the TCS Code of Conduct Conflict of Interest provision;
- e) will ensure utmost care and adhere to Confidentiality, IP Protection / Non-Disclosure obligations.
- f) will be using the Company allotted laptop or similar authorized computing device (together called "official asset") only to connect to TCS network/customer network through authorized means (or the Customer provided laptop to access the customer network if so, mandated by the Customer).
- g) will not allow anybody to share the official asset being used
- h) where allowed to use personal workstation/laptop or similar computing device (together called "personal asset") to connect to TCS network/customer network, Intern will ensure that he/she fully complies with obligations under this Confidentiality, IP Protection / Non-Disclosure Agreement and adheres to the security best practices that is generally followed and ensure that Intern's access to TCS / TCS Client systems is in line with the approved model. The Intern further agrees that by seeking permission to use a personal asset, the Intern implicitly authorizes the Company to have unhindered access to run scans / forensics, should there be justified reasons to do so.

TATA CONSULTANCY SERVICES

 Tata Consultancy Services Limited

 Yantra Park, Opp. Voltas HRD Trg. Center, Subhash Nagar, Pokhran Road No. 2, Thane (West) 400 601 India

 Tel +91 22 6778 2000/2222 Fax +91 40 6778 2190 website: www.tcs.com

 Registered Office Nirmal Building, 9th Floor, Nariman Point, Mumbai 400 021



8. Restriction on Intern's Rights

Intern agrees that he or she shall not make, have made, replicate, reproduce, use, sell, incorporate or otherwise exploit, for his or her own use or for any other purpose, any of the Confidential Information including intellectual properties of TCS that is or may be revealed to him or her by TCS or which may in the course of his or her employment with TCS come into his or her possession or knowledge unless specifically authorized to do so in writing by TCS.

9. No License

TCS and Intern agree that no license under any patent or copyright now existing or hereafter obtained by TCS is granted, agreed to be granted, or implied by the terms of this Agreement, or by the disclosure to Intern of the Confidential Information.

10. Equitable Rights

Intern acknowledges that any Confidential Information that comes into the possession and / or knowledge of Intern is of a unique, highly confidential and proprietary nature. It is further acknowledged by Intern that the disclosure, distribution, dissemination and / or release by Intern of the Confidential Information without the prior written consent of TCS or any breach of the Confidentiality Clause by Intern will cause TCS to suffer severe, immediate and irreparable damage and that upon any such breach or any threat thereof, TCS shall without prejudice to any other remedies available to it, be entitled to appropriate equitable relief including the relief of specific performance and injunctive relief, in addition to whatever remedies it might have at law.

11. General

- a) The provisions hereof shall be interpreted, determined and enforced in accordance with the laws of India.
- b) In the event of any dispute or disagreement over the interpretation of any of the terms herein contained or may claim or liability of any party, the same shall be referred to a person to be nominated by TCS, whose decision shall be final and binding upon the parties hereto. Subject to the above, the arbitration shall be governed by the Arbitration and Conciliation Act, 1996 or any modifications or re-enactment thereof. Intern confirms that the fact that the arbitrator shall be a nominee of TCS shall not be a ground for objecting to such arbitration or challenging the decision of the arbitrator. The venue of arbitration shall be Mumbai. Subject to the

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above arbitration clause, the Parties agreed to the binding jurisdiction of the Courts at Mumbai under the laws of India.

- c) If any provision hereof shall be found by a judicial tribunal to be contrary to governing law, it shall be deemed null and void without annulling or rendering invalid the remainder of the Agreement and if the invalid portion is such that the remainder cannot be sustained without it, the Parties herein shall find a suitable replacement to the invalid portion that shall be legally valid.
- d) This Confidentiality clause along with other documents executed by Intern or referenced in any such documents constitutes the entire understanding between the parties and supersedes all prior agreements and understandings pertaining to the subject matter thereof. No delay of omission of either Party in exercising or enforcing any of their rights or remedies hereunder shall constitute a waiver thereof.
- e) This Confidentiality clause may not be amended except in writing signed by authorized representatives of both parties.
- f) The obligations of Intern in terms of this Confidentiality clause shall continue during the term of or in the course of the internship of the Intern with TCS and shall continue thereafter in perpetuity.

TATA CONSULTANCY SERVICES

 Tata Consultancy Services Limited

 Yantra Park, Opp. Voltas HRD Trg. Center, Subhash Nagar, Pokhran Road No. 2, Thane (West) 400 601 India

 Tel +91 22 6778 2000/2222 Fax +91 40 6778 2190 website: www.tcs.com

 Registered Office Nirmal Building, 9th Floor, Nariman Point, Mumbai 400 021

This is to certify that

Shyamali Neje	C22019771841
Aditi Pardeshi	C22019771843
Avani Pathak	C22019771845
Anushka Pillewar	C22019771850

have successfully completed the work on their PROJECT TOPIC

Real Time Sentiment Analysis on Youtube Comments

in partial fulfillment for the award of the degree of

Bachelor of Technology in ELECTRONICS AND TELECOMMUNICATION ENGINEERING OF SAVITRIBAI PHULE PUNE UNIVERSITY,

in

M.K.S.S.S.'s CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVE NAGAR, PUNE - 411052.

Internal Guide [Prof. Madhura Paranjpe]

P. Nuthing

Head of the Department [Dr.(Mrs.)Prachi Mukherji]

Principal [Dr.(Mrs.)M.B. Khambete]

Analyzing Sentiments of product reviews using natural language processing and Machine Learning Algorithms

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	Ankita Chavan	C22019771	804
	Divya H R	C22019771	816
	Priyanka Gadewar	C22019771	809
	Mitali Agrawal	C22019771	801
have succes	sfully completed the w	ork on their	PROJECT TOPIC
Analyzing Sen	timents of product ressing and Machine	eviews usi	ng natural language
in pa	rtial fulfillment for the	award of the	degree of
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MKSSS'S Cummins College Of Engineering For Women, Pune

Retail website of a Pharmaceutical company and its Business Analysis

CERTIFICATE

This is to certify that Vishakha Aiwale C22019111103 Shruti Bharat C2201911119 Bhakti Herwade C22019111148 Gargi Jain C22019111156

have successfully completed the work on their PROJECT TOPIC

Retail Website of a Pharmaceutical Company and its Business Analysis

in partial fulfillment for the award of the degree of

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in

M.K.S.S.S.'s CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVENAGAR, PUNE - 411052.

Internal Guide [Prof.Madhura Paranjpe]

P Muthuji

Head of the Department [Dr.(Mrs.)Prachi Mukherji]

Principal [Dr.(Mrs.)M.B. Khambete]

Cummins College of Engineering for Women, Pune

This is to certify that Himani Antad C22 Renuka Aole C22 Mansi Bage C22 Madhura Dharmadhikari C22

C22019111106 C22019111107 C22019111114 C22019111134

have successfully completed the work on their PROJECT TOPIC

Prediction of Land Suitability for Crop Cultivation Based on Soil and Environmental Characteristics Using Various Classifiers

in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND TELECOMMUNICATION ENGINEERING OF SAVITRIBAI PHULE PUNE UNIVERSITY,

in

M.K.S.S.S.'s CUMMINS COLLEGE OF ENGINEERING FOR WOMEN , KARVE NAGAR , PUNE - 411052 .

[Dr.Prof. A.R.Khedkar]

PMuthayi

Head of the Department

Principal

This is to certify that

Adiba MullaC22019111209Nandini SinghC22019111213Apoorva PurohitC22019111238Mansi RakarC22019111242

have successfully completed the work on their PROJECT TOPIC

5G Microstrip Patch Array Antenna for Gain Enhancement

in partial fulfillment for the award of the degree of

Bachelor of Technology in ELECTRONICS AND TELECOMMUNICATION ENGINEERING OF SAVITRIBAL PHULE PUNE UNIVERSITY,

in

M.K.S.S.S.'s CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVE NAGAR, PUNE - 411052.

Internal Guide [Prof.Mahesh Pote]

PNInthe

Head of the Department

Principal [Dr.(Mrs.)M.B.Kharabete] Water Speed Measurement using particle tacking & OpenCV

CERTIFICATE

This is to certify that

Tulika Rajiv Choudhary Prajakta Santosh Patil Pranali Pravin Mane Nivedita Kakasaheb Shinde

have presented a REPORT on their PROJECT TOPIC

Water Speed Measurement Using Particle Tracking & OpenCV.

in partial fulfillment for the award of degree

Bachelor of Technology in ELECTRONICS & TELECOMMUNICATION of SAVITRIBAI PHULE PUNE UNIVERSITY,

in

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVENAGAR, PUNE 52 (An autonomous institute affiliated to SAVITRIBAI PHULE PUNE UNIVERSITY)

Internal Guide [Dr.Prof.Bageshree Pathak]

External Guide

[Dr.M.Selva Balan]

Phulling

Principal [Dr.(Mrs).M.B.Khambete]

Head Of Department [Dr.Prof.Prachi Mukherji]

MKSSS's Cummins College OF Engineering For Women, Pune

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	Anushree Deshpande Madhura Vinayak Gija Harshita Surshree Kishor Jadi	ire
have preser	nted a PROJECT REPORT of	on their PROJECT
TOPIC R	everse Image Search	Engine for E-
commerce	, in partial fulfillment for th	ne award of degree
Bachelor of Techr SAV	ology in ELECTRONICS & /ITRIBAI PHULE PUNE UNI	TELECOMMUNICATION of VERSITY,
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el	PN Ilingi	MB/ An
Internal Guide	Head Of Department [Dr.Prof.Prachi Mukherji]	Principal [Dr.(Mrs).M.B.Khambete]

This is to certify that

Prarthana Ranade Ritika Rathod Ritika Singh Anushka Supe

C22019771854 C22019771855 C22019771856 C22019771860

have successfully completed the work on their PROJECT TOPIC

Detecting an obstacle and extracting its image data to convert it into voice note for visually impaired people.

in partial fulfillment for the award of the degree of

Bachelor of Technology in ELECTRONICS AND TELECOMMUNICATION ENGINEERING of SAVITRIBAI PHULE PUNE UNIVERSITY,

in

M.K.S.S.S.'s CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVENAGAR, PUNE - 411052.

Internal Guide [Prof. Sharad Dube]

PMullwy

Head of the Department [Dr.(Mrs.)Prachi Mukherji]

Principal [Dr.(Mrs.)M.B. Khambete]

M.K.S.S. S's CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVENAGAR, PUNE-52

Face Recognition based Smart Attendance System

CERTIFICATE

This is to certify that

Revati Pisal(C22018771864) Sharvari Padole (C22018771836) Pooja Khiradkar(C22020772802) Tejal Nehete (C22020772805)

Have successfully completed the work on their PROJECT TOPIC

Face Recognition based Smart Attendance System

in partial fulfillment for the award of the degree of Bachelor of

Technology in ELECTRONICS AND TELECOMMUNICATION of SAVITRIBAI PHULE PUNE UNIVERSITY,

in

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVENAGAR, PUNE-52 (An Autonomous Institute affiliated to SAVITRIBAI PHULE PUNE UNIVERSITY)

Internal Guide [Prof. Aparna Badave] Date: 2023.04.26

PMitheyi

Head of the Department

inter

Principal [Dr.(Mrs.)M.B.Khambete]

Automatic Text summarization



This is to certify that Divya Dhote C22019111135 Surabhi Chandra C22019111122 Charushila Bhadane C22019111117 Pradnya Badole C22019111113

have successfully completed the work on their PROJECT TOPIC

Automatic Text Summarization

in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND TELECOMMUNICATION ENGINEERING OF SAVITRIBAI PHULE PUNE UNIVERSITY,

in

M.K.S.S.S.'s CUMMINS COLLEGE OF ENGINEERING FOR WOMEN , KARVENAGAR , PUNE - 411052 .

Internal Guide [Dr.Anita patil]

Head of the Department [Dr.(Mrs.)Prachi Mukherji]

ha

Principal [Dr.(Mrs.)M.B. Khumbete]

MKSSS's Cummins college of engineering for women

CERTIFICATE This is to certify that Sapna Shekhar Rojina Aslam Shaikh Fatma Bano Sheikh Aditi Wadatkar have presented a SEMINAR on their PROJECT TOPIC Electric Vehicle Battery Life Analysis in partial fulfilment for the award of the degree of **Bachelor of Technology in ELECTRONICS AND TELECOMMUNICATION** of SAVITRIBAI PHULE PUNE UNIVERSITY, in CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVENAGAR, PUNE-52 (An Autonomous Institute affiliated to SAVITRIBAI PHULE PUNE UNIVERSITY) nongle PMuthey Head of the Department Internal Guide Principal [Dr.Prachi Mukherji] [Dr.(Mrs.)M.B.Khambete] Dr. Supriya Mangale |

MKSSS's Cummins College Of Engineering for Women, Pune

This is to certify that

Priyanka Kajave (C22019771824)

Swapnali Kuldharan (C22019771835)

Sejal Phalle (C22019771849)

Vaibhavi Malwade (C22020772803)

have successfully completed the work on their PROJECT TOPIC

MEDICAL REPORT MANAGEMENT AND DISTRIBUTION SYSTEM USING BLOCKCHAIN,

in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND TELECOMMUNICATION ENGINEERING OF SAVITEBAI PHULE PUNE UNIVERSITY,

in

M.K.S.S.S.'s CUMMINS COLLEGE OF ENGINEERING FOR WOMEN , KARVENAGAR , PUNE - 411052 .

Internal Guide

P. Nuthuji

Head of the Department [Dr.(Mrs.)Prachi Mukherji]

Principal [Dr.(Mrs.)M.B. Khambete]

MKSSS'& CUMMINS COLLEGE OF ENGINEERING FOR WOMEN. PUNE

This is to certify thatAyushi SinghC22019111109Ayushi VarshsneyC22019111110Ch S SathvikaC22019111121Mangalapelly TejaswiC22019111170

have successfully completed the work on their PROJECT TOPIC

Detection and classification of Intracranial Hemorrhage Using CT scans

in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND TELECOMMUNICATION ENGINEERING OF SAVITRIBAI PHULE PUNE UNIVERSITY,

in

M.K.S.S.S.'s CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVE NAGAR, PUNE - 411052.

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Internal Guide [Prof. R.T Suryavanshi] Khambete]

PNLilling

Head of the Department [Dr.(Mrs.)Prachi Mukherji]

Principal [Dr.(Mrs.)M.B.

Sales Prediction

CERTIFICATE

This is to certify that

4226 Bhagyashri Patil 4233 Poonam Pawar 4243 Soniya Rukade 4266 Shubhada Patade

have successfully completed the work on their PROJECT TOPIC Sales Prediction

in partial fulfillment for the award of the degree of

Bachelor of Technology in ELECTRONICS AND TELECOMMUNICATION of SAVITRIBAI PHULE PUNE UNIVERSITY,

in

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVE NAGAR,

PUNE-52 (An Autonomous Institute affiliated to SAVITRIBAI PHULE PUNE UNIVERSITY)

FOUN

Internal Guide [Prof. Ravikant Suzyawanshi] Head of the department [Dr.(Mrs.)Prachi Mukherji] Principal [Dr.(Mrs.)M.B. Khambete]

MKSSS's Cummins College of Engineering for Women, Pune.

This is to certify that

Agarwal VanshikaC22019111102Belhekar GayatriC22019111116Bhagwat RaginiC22019111118Biradar SwarupaC22019111120

have successfully completed the work on their PROJECT TOPIC

ANALYSIS OF DIFFERENT ALGORITHMS FOR TEXT FILTERING TAKING SMS DATA AS SAMPLE

in partial fulfillment for the award of the degree of

Bachelor of Technology in ELECTRONICS AND TELECOMMUNICATION of SAVITRIBAI PHULE PUNE UNIVERSITY,

in

MKSSS's CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVE NAGAR, PUNE-52 (An Autonomous Institute affiliated to SAVITRIBAI PHULE PUNE UNIVERSITY)

P Millings

Internal Guide [Prof. Pallavi Ghatkamble] Head of the Department

[Dr. Prachi Mukherji]

State and a

Principal

[Dr. Madhuri Khambete]

This is to certify that

C22019111111
C22019111154
C22020112101
C22020112103

have successfully completed the work on their PROJECT TOPIC

GESTURE BASED NOTICE BOARD

in partial fulfillment for the award of the degree of

Bachelor of Technology in ELECTRONICS AND TELECOMMUNICATIONENGINEERING Of SAVITRIBAI PHULE PUNE UNIVERSITY,

in

M.K.S.S.S.'s CUMMINS COLLEGE OF ENGINEERING FOR WOMEN . KARVENAGAR

PUNE - 411052 .

Internal Guide Prof.Sagar Vanarase Head of the Department Dr.Prachi Mukherji

Principal Dr.M.B. Khambete

Parate Barred Notice Scient

This is to certify that

Kadav Nikita Anil	C22019771821
Mhamane Gitanjali Krishna	C22020772804
Pandare Jayashri Sunil	C22020772806
Talekar Daksha Dayanand	C22020772808

have successfully completed the work on their PROJECT TOPIC

Fake News Detection

in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND TELECOMMUNICATION ENGINEERING OF SAVITRIBAI PHULE PUNE UNIVERSITY,

in

M.K.S.S.S.'s CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVENAGAR, PUNE - 41105.

Stindelion

Internal Guide [Prof. Snehal Natekar]

P.Null

Head of the Department [Dr. Prachi Mukherji]

Principal [Dr. M.B. Khambete]

Mindful Buying - Recomme	ndation System	12 Kinweles r
	CERTIFICAT	ΓE
	This is to certify that	Tana and
	Vaishnavi Sanjay Padhar	
	Rachana Deepak Chougule	
	Rucha Shailesh Jagtap	
	Akshata Ashok Lalage	
	fully completed the work on the ndful Buying - Recommendation	
BACHELOR OF T	tial fulfillment for the award of t ECHNOLOGY IN ELECTRONICS AND ERING OF SAVITRIBAI PHULE PUN	TELECOMMUNICATION
	in	
M.K.S.S.S.'s C	UMMINS COLLEGE OF ENGINEE KARVENAGAR, PUNE - 411052.	ERING FOR WOMEN,
Thereit	PMuthuji	more
Internal Guide	PMLtlurji Head of the Department [Dr.Prachi Mukherji]	Principal [Dr M. B. Khambete]
[Dr. Mrudul Dixit]		
[Dr. Mrudul Dixit]		

Service-

the second second

	CERTIFIC. This is to certify	that
Dhande V	Vibhuti Mukesh	C22019771807
	radnya Rajeev	C22019771827
Karlekar	Maithili Madhay	C22019771828
Lodha K	ashmira Kirtikumar	C22019771836
have successfu	Illy completed the work	on their PROJECT TOPIC
Effective	e Data Visualization For SH	RUG Data Platform
in partia	l fulfillment for the awa	d of the degree of
ENGINE	ECHNOLOGY IN ELECTRONIC ERING OF SAVITRIBAI PHULE	S AND TELECOMMUNICATION PUNE UNIVERSITY,
	in	
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	IMMINS COLLEGE OF ENG	
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	PUNE - 411052 PUNE - 411052 Head of the Depar	MBK-1
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ternal Guide	PUNE - 411052 PUNE - 411052 Head of the Depar	tment Principa
ternal Guide	PUNE - 411052 PUNE - 411052 Head of the Depar	tment Principa

MKSSS Cummins College of Engineering for Women

This is to certify that

Pawar Shreya Ramchandani Hiral Mandal Shreya Shaikh Zubiya

C22019771848 C22019771853 C22019331531 C22019331544

have successfully completed the work on their PROJECT TOPIC

Diagnosis of faults and prediction of power in solar panels

in partial fulfillment for the award of the degree of

Bachelor of Technology in ELECTRONICS AND TELECOMMUNICATION of SAVITRIBAI PHULE PUNE UNIVERSITY,

in

M.K.S.S.S.'s CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVENAGAR, PUNE - 411052

Internal Guide

Head of the Department

Principal [Dr (Mrs.)M.B.Khambetel

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MKSSS's Cummits College of Engineering for Women, Karvenagar, Pune-411052

AUTOMATED	BIOFLOC	SYSTEM
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This is to certify that

Snehal Suresh Chitale Shachi Rajendra Kokare Vidushi Vinod N Parvati Tamanna Patil

C22015771707 C22018771827 C22019771863 C22020772807

have successfully completed the work on their PROJECT TOPIC

Automated Biofloc System

in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND TELECOMMUNICATION ENGINEERING OF SAVITRIBAI PHULE PUNE UNIVERSITY,

in

M.K.S.S.S.'s CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVE NAGAR, PUNE - 411052.

how

Internal Guide [Prof. S. L. Sahare]

PM shuge

Head of the Department [Dr.(Mrs.)Prachi Mukherji]

Principal [Dr.(Mrs.)M.B. Khambete]

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE



Implementation of Supply Chain Management System using Blockchain

CERTIFICATE This is to certify that Snehal Dilip Ajetarao (C22019111104) (C22019111105) Annem Vijitha Akshata Sanjay Bagul (C22019111115) (C22019111128) Saniya Daga have successfully completed the work on their PROJECT TOPIC Implementation of supply chain management using Blockchain in partial fulfillment for the award of the degree of Bachelor of Technology in ELECTRONICS AND TELECOMMUNICATION of SAVITRIBAI PHULE PUNE UNIVERSITY, in CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVE NAGAR, PUNE-52 (An Autonomous Institute affiliated to SAVITRIBAI PHULE PUNE UNIVERSITY) Muth Head of the Department Principal Internal Guide [Dr.(Mrs.)M.B.Khambete] [Dr.Prachi Mukherji] Prof. Pallavi S. Ghatkamble]

Cummins College of Engineering for Women, Karve Nagar, Pune-52

Manhole Cleaning System To Partially End Manual Scavenging

CERTIFICATE

This is to certify that

Mugdha Daware	C22019771806
Sindhuja Dhawale	C22019771808
Dhanashree Ghotikar	C22019771812
Shalaka Nagre	C22018771833

have successfully completed the work on their PROJECT TOPIC Manhole Cleaning System to partially end manual scavenging

in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND TELECOMMUNICATION ENGINEERING OF SAVITRIBAI PHULE PUNE UNIVERSITY,

in

M.K.S.S.S.'s CUMMINS COLLEGE OF ENGINEERING FOR WOMEN , KARVENAGAR , PUNE - 411052 .

Internal Guide [Dr/Prof.Vidya Sisale]

P. Nuthings

Head of the Department

Principal Dr.(Mrs.)M.B. Khambete



Comparative analysis of efficient implementation of CNN on CPU and GPU for image processing and implementation of basic CNN operations in Verilog

	This is to c	ertify that	
S	hriya Avachat	C220191111	08
A	diti Chitnis	C220191111	26
N	leha Deodhar	C220191111	
P	urva Godse	C220191111	46
Have success	fully completed thei	r work on their PF	ROJECT TOPIC
Comparative CNN on CPI	analysis of efficient	implementation of processing and im	plementation of
	perations in Verilog		
	ECHNOLOGY IN ELEC ERING OF SAVITRIBA	I PHULE PUNE UNI	
NKCCC'- CI	MMINS COLLEGE		FOR WOMEN,
M.N.S.S.S S C			AA A
22	PN	luji (Bindes
SHRAYPUL Internal Guide	PN_1 Head of the D	epartment	Principal M.B. Khambete]

Cummins College of Engineering for Women, Pune

NAR Mobile Augmented Reality

CERTIFICATE

This is to certify that <u>Shruti R Patil (C22019771847)</u> <u>Anushka S Pimparkhedkar (C22019771851)</u> <u>Srishty Kumari (C22019771859)</u>

have successfully completed the work on their PROJECT TOPIC

MAR - Mobile Augmented Reality

in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND TELECOMMUNICATION ENGINEERING OF SAVITRIBAI PHULE PUNE UNIVERSITY,

in

M.K.S.S.S.'s CUMMINS COLLEGE OF ENGINEERING FOR WOMEN , KARVENAGAR , PUNE - 411052 .

Internal Guide [(Prof.)(Mrs.)Rupali Pawar]

RALithui

Head of the Department

Principal [Dr.(Mrs.)M.B. Khambete]

This is to certify that

Khushi Kanade	(C22019771826)
Priyanka Khade	(C22019771829)
Pratiksha Pansare	(C22019771842)
Shambhavi Shanbhag	(C22019771865)

have presented a Project "Book recommendation using machine learning and Natural language processing"

in partial fulfillment for the award of the degree of

Bachelor of Technology in ELECTRONICS AND TELECOMMUNICATION of SAVITRIBAI PHULE PUNE UNIVERSITY,

în

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVENAGAR, PUNE-52

(An Autonomous Institute affiliated to SAVITRIBAI PHULE PUNE UNIVERSITY)

P Muthinji

Internal Guide [Prof.Manasi Pathade]

Head of the Department [Dr.Prachi Mukherji]

Principal [Dr.(Mrs.)M.B.Khambete]

Wireless based data transmission system for gate control in Dams along with Data.

CERTIFICATE

This is to certify that

Tanvi Kulkarni	C22019771836
Aditi More	C22019771840
Shubhra Jain	C22019331522
Isha Patil	C22019331536

have successfully completed the work on their PROJECT TOPIC WIRELESS BASED DATA TRANSMISSION SYSTEM FOR GATE CONTROL IN DAMS ALONG WITH DATA ANALYSIS

in partial fulfillment for the award of the degree of

Bachelor of Technology in ELECTRONICS AND TELECOMMUNICATION OF SAVITRIBAI PHULE PUNE UNIVERSITY,

in

M.K.S.S.S's CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVENAGAR, PUNE - 411052.

Internal Guide Prof. Sagar Vanarase

2 Mulling

MBYLA

External Guide Dr.M.Selva Balan

Head of the Department Dr. Prachi Mukherji

Principal Dr.M.B Khambete

MKSSS's Cummins college of engineering for Women

Fault Detection in an On-Board Charger using Synthetic Data

	CERTIFICATE	
10-10x	This is to certify that	
	Jagdale Aditi Utkarsh Jagtap Varsha Dhananjay Khilari Shivani Khandu Kolhe Nikita Vivek	
	lly completed the work on their ection in an On-Board Charger using	
achelor of Techno	al fulfillment for the award of the ology in BLECTRONICS AND TEL AVITRIBAI PHULE PUNE UNIVER	ECOMMUNICATION
	in	
CUMMINS COLLE UNE-52 (An Autor	GE OF ENGINEERING FOR WOME nomous Institute affiliated to SAVIT UNIVERSITY)	N, KARVENAGAR, RIBAI PHULE PUNE
UNE-52 (An Autor	nomous institute affiliated to SAVII	N, KARVENAGAR,
CUMMINS COLLE UNE-52 (An Autor UNE-52 (An Autor Internal Guide of M. S. Patankar]	nomous Institute affiliated to SAVI UNIVERSITY)	RIBAI PHULE PUNE

CERTIFIC	ATE
This is to certify	that
Kabir Amrit Prakash	C22019111159
Kotpalliwar Vasavi Abhay	C22019111168
Bogawat Ruchi Nitin	C22020112102
Shendge Harsha Sunil	C22020112106
have successfully completed the work	on their PROJECT TOPIC
Detection of Cyberbullying on social med	
in partial fulfillment for the awa	rd of the degree of
BACHELOR OF TECHNOLOGY IN ELECTRONIC ENGINEERING OF SAVITRIBAI PHUI	IS AND TELECOMMUNICATION & PUNE UNIVERSITY,
in	
M.K.S.S.S.'s CUMMINS COLLEGE OF EN KARVENAGAF PUNE - 411052	ξ,
nal Guide Snehal Natekar] Head of the Departr [Dr.(Mrs.)Prachi Mukh	nent Principal

Analysis Of ML Algorithms For Used Vehicle Price Prediction And Churn Prediction

	This is to certify that
	Sakshi Badhan (C22019111112.)
	Shreya Dabbawar (C22019111126.)
	Divya Maheshwari (C22019111136.)
SI	hravani Dongargaonkar (C22019111137.)
have successful	ly completed the work on their PROJECT TOPIC
Model analysis of	different ML Algorithms for Used vehicle Price Prediction and Churn Prediction.
in partial	fulfillment for the award of the degree of
BACHELOR OF TEL ENGINEE	CHNOLOGY IN ELECTRONICS AND TELECOMMUNICATION FRING OF SAVITRIBAL PHULE PUNE UNIVERSITY,
	in
K.S.S.S.'s CUMMI	NS COLLEGE OF ENGINEERING FOR WOMEN , KAP NAGAR , PUNE - 411052 .
14/	P.Nulling my A
130	
ernal Guide	Head of the Department Principal

-

2

This is to certify that

CERTECATE

Samruddhi Chavan

Sakshi Galphade

Garima Baleja

Shruti Gavhane

have successfully completed the work on their PROJECT TOPIC

(AUTOMATED HYDROPONIC SYSTEM)

in partial fulfillment for the award of the degree of

Bachelor of Technology in ELECTRONICS AND TELECOMMUNICATION ENGINEERING OF SAVITRIBAI PHULE PUNE UNIVERSITY, in

M.K.S.S.S.'s CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVENAGAR,

PUNE - 411052.

Internal Guide

PMillingi

inte

Head of the Department

Principle

[Dr.M.B.Khambete]

[Dr.Prachi Mukherji]

This is to certify that

Gayatri Rohidas chaune	C22019111123
Aishwarya Nandkumar Dani	C22019111129
Vaishnavi Kashinath Hapse	C22019111147
Pradnya Vilas Jadhav	C22019111150

have successfully completed the work on their PROJECT TOPIC

E-Commerce recommendation system using reverse image search

In partial fulfillment for the award of the degree of

Bachelor of Technology in ELECTRONICS AND TELECOMMUNICATION ENGINEERING OF SAVITRIBAL PHULE PUNE UNIVERSITY.

ln

MK.S.S.S.'& CUMMINS COLLEGE OF ENGINEERING FOR WOMEN,

KARVENAGAR.

PUNE- 411052

PM-lugi

Internal Guide [Dr.Sharada Ohatkar]

Head of the Department [Dr. Prachi Mukherji]

Principle [Dr.M.B.Khambete]

3

Traffic Rule Violation Detection System

CERTIFICATE

This is to certify that

Mayuri Uttarwar C22019111263 Radhika Rudrawar C22019111243 Akanksha Salunkhe C22019111245 Chaturthi Pratapwar C22019111237

have successfully completed the work on their

Project Topic

Traffic Rule Violation Detection System

in partial fulfillment for the award of the degree of

Bachelor of Technology in ELECTRONICS AND TELECOMMUNICATION of SAVITRIBAI PHULE PUNE UNIVERSITY,

in

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVE NAGAR, PUNE-52 (An Autonomous Institute affiliated to SAVITRIBAI PHULE PUNE UNIVERSITY)

greator PM llugi

Internal Guide [Prof Sandhya Potdar]

Head of the Department [Dr Prachi Mukherji]

Principal [Dr.M.B.Khambete]

MKSSS's Cummins College of Engineering for Women, Pune

Identification and Captioning using Deep Learning Techniques for Multimodal Images

CERTIFICATE

This is to certify that

Naik Bhairavi Pardeshi Nikita Patil Kinjal Shinde Aarti

have presented a SEMINAR on their PROJECT TOPIC

Identification and Captioning using Deep Learning Techniques for Multimodal Images

in partial fulfillment for the award of the degree of

Bachelor of Technology in ELECTRONICS AND TELECOMMUNICATION of SAVITRIBAI PHULE PUNE UNIVERSITY,

in

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVE NAGAR, PUNE-52 (An Autonomous Institute affiliated to SAVITRIBAI PHULE PUNE UNIVERSITY)

Internal Guide Prof. Aparna Kapare]

Head of the Department (Dr.Prachi Mukherji)

Principal [Dr.(Mrs.)M.B.Khambete]

MKSSS Cummins College of Engineering for Women, Karve Nagar, Pune-411052

This is to certify that

Anuja Limaye Rucha Limaye Vishakha Managoli Mrunal Nilgilwar C22019111201 C22019111202 C22019111206 C22019111216

have successfully completed the work on their PROJECT TOPIC

Handwritten text recognition system using AI

in partial fulfillment for the award of the degree of

Bachelor of Technology in ELECTRONICS AND TELECOMMUNICATION ENGINEERING OF SAVITRIBAI PHULE PUNE UNIVERSITY,

in

M.K.S.S.S.'s CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVE NAGAR, PUNE-411052.

Internal Guide

PN lluji

Head of the Department

Principal [Dr(Mrs.) M.B.Khambete]

iii

Designing Electric Vehicle Charger for Two-wheeler vehicles and Three-wheeler vehicles

CERTIFICATE

This is to certify that

Student's Name Nalawade Siddhi Patil Gauri Awate Janhavi Shingade Akansha C.No.(s) C22019111212 C22019111227 C22019771818 C22020112207

have succesfuly completed the work on their PROJECT TOPIC

DESIGNING ELECTRIC VEHICLE CHARGER FOR 2 WHEELER VEHICLES

in partial fulfillment for the award of the degree of

Bachelor of Technology in ELECTRONICS AND TELECOMMUNICATION of SAVITRIBAI PHULE PUNE UNIVERSITY,

in

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVENAGAR, PUNE-52 (An Autonomous Institute affiliated to SAVITRIBAI PHULE PUNE UNIVERSITY)

[Prof.Mr.Sharad Dube]

Head of the Department [Dr.Prachi Mukherji]

Principa

[Dr.(Mrs.)M.B.Khambete]

3

Cummins College of Engineering for Women ,Karvenagar , Pune

This is to certify that Anushree Wagh Sneha Pawar Teenu Awachat Shivanjali Sangale

have successfully completed the work on their PROJECT TOPIC Detection of parking slots based on Mask R-CNN

in partial fulfillment for the award of the degree of

Bachelor of Technology in ELECTRONICS AND TELECOMMUNICATION of SAVITRIBAI PHULE PUNE UNIVERSITY,

in

M.K.S.S.S's CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVENAGAR, PUNE-411052

[Prof.Madhura Paranipe]

Head of the Department [Dr.Prachi Mukherji]

Principal [Dr.(Mrs.)M.B.Khambete]

This is to certify that

Vaishnavi Kharat	C22019771830
Sanyukta Khatdeo	C22019771831
Harshada Kothe	C22019771833
Rutuja Kshirsagar	C22019771834

have successfully completed the work on their PROJECT TOPIC

Atmospheric Image Correction and Removal Of Cloud Cover for Satellite Images and Classification Of Water, Land and Vegetation

in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND TELECOMMUNICATION ENGINEERING OF SAVITRIBAL PHULE PUNE UNIVERSITY,

in

M.K.S.S.S.'s CUMMINS COLLEGE OF ENGINEERING FOR WOMEN , KARVENAGAR , PUNE - 411052 .

Internal Guide

PMilling

[Dr. Prachi Mukherji]

Principal [Dr. M.B.Khambete]

This is to certify that

Radha Pawar Pradnya Shendge Apoorva Ghuge Janhvi Patil

have presented a SEMINAR on their PROJECT TOPIC

Automated HealthCare ChatBot

in partial fulfillment for the award of the degree of

Bachelor of Technology in ELECTRONICS AND TELECOMMUNICATION of SAVITRI BAI PHULE PUNE UNIVERSITY,

In

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVENAGAR,

PUNE-52 (An Autonomous Institute affiliated with SAVITRI BAI PHULE PUNE UNIVERSITY)

PMilling

Schoudhart

Internal Guide [Dr. Shubhangi Chaudhary] Head of the Department [Dr.Prachi Mukherji] Principal [Dr.M.B.Khambete]

	This is to certify that	
	this is to octuly that	
	Prapti Kawthekar C22019111236	
	Neha Tavargeri C22019111260	
	Avdhi Tembhare C22019111261	
	Nutan Tupe C22019111262	
have success	fully completed the work on their PROJECT TOPI	С
Creation	n of the meaningful dashboard for a production store	
1		
in part	ial fulfillment for the award of the degree of	
D LOUVEL OD OF		
	TECHNOLOGY IN ELECTRONICS AND TELECOMMUNICATION WEERING OF SAVITRIBAI PHULE PUNE UNIVERSITY,	N
*	in	
	MINS COLLEGE OF ENGINEERING FOR WOMEN , KA	RV
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I.K.S.S.S.'s CUM	NAGAR , PUNE - 411052 .	
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I.K.S.S.S.'s CUM		
K.S.S.S.'s CUM		
K.S.S.S.'s CUM	PUNE - 411052 . P. Muthuyi Head of the Department Principal	

Scanned with CamScanner

Expaction of Water Depth from Satellite Imagery.

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1	215		191	CA	A I .	P

This is to certify that

Adili Balkrishna Jadhav C2 Yokta Jayant Joshi Jyoti Pavan Kumar Jangid Akanksha Milind Kharkar

C22019111149 C22019111157 C22019111158 C22019111104

have successfully completed the work on their PROJECT TOPIC

EXTRACTION OF WATER DEPTH FROM SATELLITE IMAGERY

in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND TELECOMMUNICATION ENGINEERING OF SAVITRIBAI PHULE PUNE UNIVERSITY.

in

M.K.S.S.S.'s CUMMINS COLLEGE OF ENGINEERING FOR WOMEN , KARVE NAGAR , PUNE - 411052 .

Principal [De(Mrs.)M.B. Shandets]

External Guide

Internal Guide B HOD [Dr.(Mes.)Purchi Makheen]

MKSSS Cummins College of Engineering for Women, Palw

Title of the Project: Smart Digital Crop Harvester Monitoring Dashboard

CERTIFICATE
This is to certify that
Aditi Oak
Ishwari Patil Aarya Phansalkar
have successfully completed the work on their PROJECT TOPIC
SMART DIGITAL CROP HARVESTER
MONITORING DASHBOARD
in partial fulfillment for the award of the degree of
Bachelor of Technology in ELECTRONICS AND TELECOMMUNICATION of SAVITRIBAI PHULE PUNE UNIVERSITY,
in
CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVENAGAR, PUNE - 411052
enjuting mall
Internal Guide Head of the Department Principal

Principal [Dr.(Mrs.)M.B.Khambete]

[Dr.Prachi Mukherji]

Monocular Visual Odometry

CERTIFICATE

the sensitive to expre-

AACHAL KADOO C22019771822 AMISHA KADU C22019771823 SAYALI LAWAND C22019771837 SUTANUKA DEY C22019771861

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This is to certify that

have successfully completed the work on their PROJECT TOPIC

Monocular Visual Odometry

in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND TELECOMMUNICATION ENGINEERING OF SAVITRIBAI PHULE PUNE UNIVERSITY,

in

M.K.S.S.S.'s CUMMINS COLLEGE OF ENGINEERING FOR WOMEN , KARVENAGAR , PUNE - 411052 .

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mether

Internal Guide Dr. Ratnaprabha Borhade

Head of the Department Dr.(Mrs.)Prachi Mukherji

3

Principal Dr.(Mrs.)M.B.Khambete

Cummins College of Engineering

This is to certify that

Dhwani Kariya	C22019771866
Krushna Gurav	C22019771868
Kasturi More	C22019771867
Snekha S	C22019771857

have successfully completed the work on their PROJECT TOPIC

Non linear gate control of canal using flow measurement under GUI based control.

in partial fulfillment for the award of the degree of

Bachelor of Technology in ELECTRONICS AND TELECOMMUNICATION OF SAVITRIBAI PHULE PUNE UNIVERSITY,

in

M.K.S.S.S's CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVENAGAR, PUNE - 411052.

Internal Guide

Muthe

Head of the Department

Principal

Dr.Bageshree Pathak

External Guide

Dr. Prachi Mukherji

Dr.M.B Khambete

Dr.M.Selva Balan Joint Director, CWPRS, Pune

CUMMINS COLLEGE OF ENGINEERING

Indian Sign Language Recognition and Search Results

CERTIFICATE

This is to certify that

Kalyani Shirish Gargate	C22019771810
Vaishnavi Sachidaanand Gulavani	C22019771815
SamruddhiVyankatesh Kadam	C22019771820
Shweta Yogesh Kothawade	C22019771864

have successfully completed the work on their PROJECT TOPIC

INDIAN SIGN LANGUAGE RECOGNITION AND SEARCH RESULTS

in partial fulfillment for the award of the degree of

Bachelor of Technology in ELECTRONICS AND TELECOMMUNICATION of SAVITRIBAI PHULE PUNE UNIVERSITY,

in

M.K.S.S.S.'s CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVENAGAR,

PUNE-52

Internal Guide [Dr. Sandeep Musale]

P Mithingi

Head of the Department

Principal | Dr.(Mrs.)M.B.Khambetel

MKSSS's Cummins College of Engineering for Women, Pune

Scanned with CamScanner

AI Clothing Generator

CERTIFICATE

This is to certify that

Shraddha Magdum Shweta Magdum Mayuri Mahajan Kalyani Tarlekar

have presented a Project

Al Clothing Generator

in partial fulfillment for the award of the degree of

Bachelor of Technology in ELECTRONICS AND TELECOMMUNICATION of SAVITRIBAI PHULE PUNE UNIVERSITY,

in

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVE NAGAR, FUNE-52 (An Autonomous Institute affiliated to SAVITRIBAI PHULE PUNE UNIVERSITY)

PN lluji

Principal [Dr.(Mrs.)M.B.Khambete]

Internal Guide [Prof.Manasi Pathade] Head of the Department [Dr.Prachi Mukherji]

MKSSS Cummins College of Engineering for Women, Karve Nagar, Pune-411052

	CERTIFICATE	
	This is to certify that	
	Sandipta Sahoo	
	Manasi Shitole	
	Shreya Nair	
	Shafa Mulla	
have successfully con	pleted the work on thei	r PROJECT TOPIC
Real-Time Visi	on-Based Elderly Monito	ring System
	in ELECTRONICS AND T IBAI PHULE PUNE UNIV in	
of SAVITR	IBAI PHULE PUNE UNIV	ERSITY,

This is to certify that

Rutuja Ner	C22019111215
Maitreyee Parkhi	C22019111223
Sayali Patil	C22019111231
Sneha Sharma	C22019111257

have successfully completed the work on their PROJECT TOPIC

Call Attempts Estimation for Loan Repayment

in partial fulfillment for the award of the degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS AND TELECOMMUNICATION ENGINEERING OF SAVITRIBAI PHULE PUNE UNIVERSITY,

in

M.K.S.S.S.'s CUMMINS COLLEGE OF ENGINEERING FOR WOMEN KARVE NAGAR, PUNE - 411052.

Internal Guide Prof. S.L. Sahare

PNilu

Head of the Department Dr.(Mrs.)Prachi Mukherji

Principal Dr.(Mrs.)M.B. Khambete

Predictive Analysis of Cub System Using Machine Learning Models.

Predictive Analysis of Cab System Using Machine Learning Models

Certificate



This is to certify that Manasvi Mattoo(C22019111207) Ojaswita Sharma(C22019111218) Asawari Surange(C22019111258) have successfully completed their work on their PROJECT TOPIC entitled

"Predictive Analysis of Cab System Using Machine Learning Models"

in partial fulfiliment for the award of the degree of

Bachelor of Technology in ELECTRONICS AND TELECOMMUNICATION OF SAVITRIBAI PHULE PUNE UNIVERSITY,

from

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN,

KARVE NAGAR, PUNE-52

Internet Guide

Date:

[Prof. G.R. Padalkar]

PMillingi

Head of Department

[Dr. Prachi Mukherji]

Principal

[Dr. M. B. Khambete]

Place: Puno:

MKSSS's Commins College of Engineering for Women. Passe

2

C	ERTIFICAT	Έ
	This is to certify that Purva Barge (C22019111270)	
	Tanishka Mule (C22019111208) Vaibhavi Nayak (C22019111214)	
have success	fully completed the work on their F	ROJECT TOPIC
<u>Obstacie b</u>	istance Detection for Vis	ually impaired
in part	ial fulfillment for the award of the c	legree of
BACHELOR OF THE	ECHNOLOGY IN ELECTRONICS AND TEI ERING OF SAVITRIBAI PHULE PUNE UN	LECOMMUNICATION
	in	
M.K.S.S.S.'s Cl	JMMINS COLLEGE OF ENGINEERIN KARVE NAGAR, PUNE - 411052.	NG FOR WOMEN,
Down .	PN luji	merine
ternal Guide Dr. Nitin Palan)	Head of the Department	Principal [Dr.(Mrs.)M.B. Khambete]

STAPS - SAFE TRAVEL ACCIDENT PREVENTION SYSTEM

CERTIFICATE

This is to certify that

SHARVARI MUNGALE	C22019111210
RAHI RAJURKAR	C22019111239
SURABHI RANGNATH	C22019111240
SWARADA VIDAR	C22019111265

have successfully completed the work on their PROJECT TOPIC

STAPS - SAFE TRAVEL ACCIDENT PREVENTION SYSTEM

in partial fulfillment for the award of the degree of

Bachelor of Technology in ELECTRONICS AND TELECOMMUNICATION ENGINEERING of SAVITRIBAI PHULE PUNE UNIVERSITY

in

M.K.S.S.S's CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVE NAGAR, PUNE- 411052

Internal Guide [Dr. Nitin Palan]

Head of the Department [Dr.Prachi Mukherji]

Principal [Dr.(Mrs.)M.B.Khambete]

MKSSS's Cummins College of Engineering for Women.Pune

	This is to ce	ruly that
	Rashi Bharade	C22019771803
	Harshada Girdhari	C22019771813
	Rujuta Giri Snehal Jadhav	C22019771814 C22019771817
have succes	sfully completed the w	ork on their PROJECT TOPIC
Query Based	Search Engine for O using Deep I	cean Water Pollution Detection
in par	tial fulfillment for the	award of the degree of
BACHELOR OF ENGIN	TECHNOLOGY IN ELECTR REERING OF SAVITRIBALI	ONICS AND TELECOMMUNICATION HULE PUNE UNIVERSITY,
	in	
M.K.S.S.S.'s	CUMMINS COLLEGE OF KARVENA PUNE - 41	0.4394/30.8293/3.7803/10

MKSSS's Cummins College of Engineering for Women

This is to certify that

Gauri Padmawar (C22019111220) Prachi Parvate (C22019111224) Aditi Patil (C22019111225) Gayatri Patki (C22019111232)

have successfully completed the work on their PROJECT TOPIC

Spammer Detection Using Machine Learning Algorithm

in partial fulfillment for the award of the degree of

Bachelor of Technology in ELECTRONICS & TELECOMMUNICATION of SAVITRIBAI PHULE PUNE UNIVERSITY,

in

M.K.S.S.S.'s CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVENAGAR, Pune-411052

(An autonomous institute affiliated to SAVITRIBAI PHULE PUNE UNIVERSITY).

Integral Guide [Prof. Tanisha Londhe]

Head Of Department [Dr. Prof. Prachi Mukherji]

Principal [Dr.(Mrs.).M.B.Khambete]

PROJECT REPORT

SUBJECTIVE ANSWER EVALUATION USING NATURAL LANGUAGE PROCESSING

Submitted by

Shruti Gawas	C22019771811
Pranjali Junje	C22019771819
Vaidehi Kalore	C22019771825
Sakshi Tawari	C22019771862

in partial fulfillment for the award of the degree of Bachelor of Technology in

ELECTRONICS AND TELECOMMUNICATION

ENGINEERING of SAVITRIBAI PHULE PUNE

UNIVERSITY,

under the guidance of Prof. Snehal Nichale Sponsored by : - Inhouse

M.K.S.S.S's CUMMINS COLLEGE OF ENGINEERING

FOR WOMEN, KARVENAGAR, PUNE – 411052.

Academic year

2022 - 23

- a) Project Title: Subjective Answer Evaluation Using Natural Language Processing
- b) Subject Area: Natural Language Processing
- c) Nature of the Project: Software

This is to certify that

Shruti Gawas Pranjali Junje Vaidehi Kalore Sakshi Tawari

C22019771811 C22019771819 C22019771825 C22019771862

have successfully completed the work on their PROJECT TOPIC

SUBJECTIVE ANSWER EVALUATION USING NATURAL LANGUAGE PROCESSING

in partial fulfillment for the award of the degree of

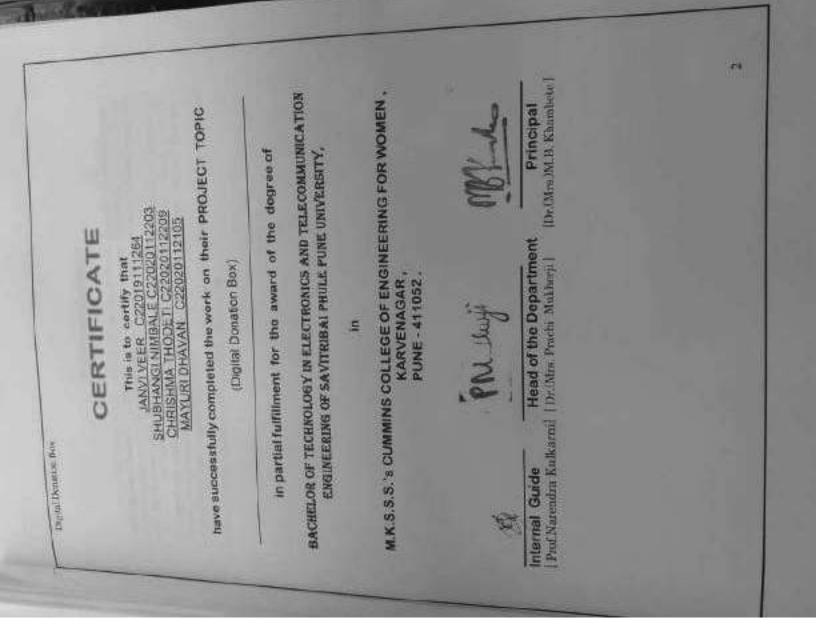
Bachelor of Technology in ELECTRONICS AND TELECOMMUNICATION ENGINEERING OF SAVITRIBAI PHULE PUNE UNIVERSITY, in

M.K.S.S.S.'s CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVENAGAR , PUNE - 411052 .

PN Lluji

Head of the Department [Prof. Snehal Nichale] [Dr.Prachi Mukherji]

Principal [Dr.Madhuri Khambete]



	CERTIFICAT	ſE
	This is to certify that Anushka Chikhale C2201911 Prajakta Deshpande C2201911 Pragati Dound C220191111 Savi Gandewar C220191111	1125 11133 38
have succes	sfully completed the work on t	heir PROJECT TOPIC
Building Software	Features Using Pre-trained AI/ML M Platform	Nodels For A Product Design
in par	tial fulfillment for the award o	f the degree of
	TECHNOLOGY IN ELECTRONICS AN NEERING OF SAVITRIBAI PHULE PUN	이 이 방법이 가지 않는 것이 많은 것이 많은 것이 집에서 가지 않는 것이 많이 많이 많이 많이 있다. 것이 같아?
	in	
M.K.S.S.S.'s	CUMMINS COLLEGE OF ENGINE KARVENAGAR , PUNE - 411052 .	ERING FOR WOMEN,
Jannit !!	PMuthuji	MBfinde
nternal Guide Dr. Mrudul Dixit]	Head of the Department [Dr.(Mrs.)Prachi Mukherji]	Principal [Dr.(Mrs.)M.B. Khambete]

This is to certify that <u>Samradni Jadhav</u> <u>Simran Kabra</u> <u>Purva Kane</u> <u>Arya Kaujalgi</u>

have presented a SEMINAR on their PROJECT TOPIC Design of microstrip patch antenna for gain enhancement using DGS for Wireless/WiMax applications.

in partial fulfillment for the award of the degree of

Bachelor of Technology in ELECTRONICS AND TELECOMMUNICATION of SAVITRIBAI PHULE PUNE UNIVERSITY,

in

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVE NAGAR, PUNE-52 (An Autonomous Institute affiliated to SAVITRIBAI PHULE PUNE UNIVERSITY)

Internal Guide [Prof.(Mahesh Pote)]

PM thuj

Head of the Department [Dr.Prachi Mukherji]

Principal [Dr.(Mrs.)M.B.Khambete]



1.2 CERTIFICATE

This is to certify that Desai Divya Gadekar Vedashree Kalloorkar Sanika Kondejkar Tanaya

have successfully completed the work on their PROJECT TOPIC

Analysis and optimisation of large ML models to work on edge devices

in partial fulfillment for the award of the degree of

Bachelor of Technology in ELECTRONICS AND TELECOMMUNICATION of SAVITRIBAI PHULE PUNE UNIVERSITY,

in

CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, KARVENAGAR, PUNE-52 (An Autonomous Institute affiliated to SAVITRIBAI PHULE PUNE UNIVERSITY)

CERTIFIED

Internal Guide [Dr./Prof.(Full Name)] (Note : -Consult your Guide)

P. Ntutlus Head of the Department

Head of the Departmen [Dr.Praclu Mukherji]

[Dr.(Mrs.)M.B.Khambete]







Cisco AICTE Virtual Internship Program 2023

Enabling skillsets of the future

Cisco Networking Academy grants this recognition to ANKITA SURESH JAGTAP

MKSSS's CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE

for successfully completing the Virtual Internship Program in Cybersecurity

Marcella O' Shea Regional Manager APJC, Corporate Affairs, Cisco

EF EdGreate

Program Partners



d'm





Student ID- STU645dfbd284cbf1683880914







Cisco AICTE Virtual Internship Program 2023

Enabling skillsets of the future

Cisco Networking Academy grants this recognition to Koumudi Vinod Joshi

MKSSS's CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE

for successfully completing the Virtual Internship Program in Cybersecurity

Marcella O' Shea Regional Manager APJC, Corporate Affairs, Cisco

Program Partners







Student ID- STU645e2f9c6bb371683894172



Enabling skillsets of the future

Cisco Networking Academy grants this recognition to Ishita Nitin Patil

MKSSS's CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE

for successfully completing the Virtual Internship Program in Cybersecurity

Marcella O' Shea Regional Manager APJC, Corporate Affairs, Cisco

Program Partners







EF Foundation

Student ID- STU645e5a62254c41683905122







Cisco AICTE Virtual Internship Program 2023

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Cisco Networking Academy grants this recognition to Siddhi Anil Dahiwale

MKSSS's CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE

for successfully completing the Virtual Internship Program in Cybersecurity

Marcella O' Shea Regional Manager APJC, Corporate Affairs, Cisco

Program Partners







EF Foundation

Student ID- STU646234ee3eada1684157678







Cisco AICTE Virtual Internship Program 2023

Enabling skillsets of the future

Cisco Networking Academy grants this recognition to Siddhi Anil Dahiwale

MKSSS's CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE

for successfully completing the Virtual Internship Program in Cybersecurity

Marcella O' Shea Regional Manager APJC, Corporate Affairs, Cisco

Program Partners







EF Foundation

Student ID- STU646234ee3eada1684157678







Cisco AICTE Virtual Internship Program 2023

Enabling skillsets of the future

Cisco Networking Academy grants this recognition to Siddhi Anil Dahiwale

MKSSS's CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE

for successfully completing the Virtual Internship Program in Cybersecurity

Marcella O' Shea Regional Manager APJC, Corporate Affairs, Cisco

Program Partners







EF Foundation

Student ID- STU646234ee3eada1684157678







Cisco AICTE Virtual Internship Program 2023

Enabling skillsets of the future

Cisco Networking Academy grants this recognition to AKSHITA SANJAY MORE

MKSSS's CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE

for successfully completing the Virtual Internship Program in Cybersecurity

Marcella O' Shea Regional Manager APJC, Corporate Affairs, Cisco

Program Partners



d'm





EF Foundation

Student ID- STU646656dc137061684428508



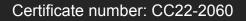
Certificate of Completion

This is to certify that **Nikita** has successfully completed the 3 month Artificial Intelligence course on 30 July 2023.

Mishan Bhanga

Nishan Bhanga

Course Instructor





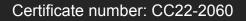
Certificate of Completion

This is to certify that **Nikita** has successfully completed the 3 month Artificial Intelligence course on 30 July 2023.

Mishan Bhanga

Nishan Bhanga

Course Instructor





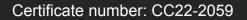
Certificate of Completion

This is to certify that **Radhika Patwe** has successfully completed the 3 month Artificial Intelligence course on 30 July 2023.

Mishan Bhanga

Nishan Bhanga

Course Instructor



RamRatan, Piot No. 70, Navketan Hsg. Soc, Nr. Ideal Colony, Kothrud, Pune 411 038. www.micromation.in E - Mail : micromationsystemspune@gmail.com



Date: 01/08/2023

To whomsoever it may concern

This is to certify that Ms. Janhavi Pendharkar has successfully completed her internship with Micromation Systems, from 04 July 2023 to 28 July 2023.

During the internship period she has gained good knowledge about microcontrollers, motors as well as motor drivers. Her grasp for the new information is appreciable.

We wish her all the best for her upcoming career.

For Micromation Systems,

Yogesh Walimbe. Partner.





Inspiring and empowering future professionals

Gayatri Kulkarni Data Analytics Consulting Virtual Internship

Certificate of Completion August 13th, 2023

Over the period of August 2023, Gayatri Kulkarni has completed practical tasks in:

Data Quality Assessment Data Insights Data Insights and Presentation



Deborah Yates National Managing Partner People Performance and Culture



Tom Brunskill CEO, Co-Founder of Forage



Date: 24-Aug-2023

TO WHOMSOVER IT MAY CONCERN

This is to certify that **Amolee Haldankar** has successfully completed her internship project with Cummins India Limited from period **06-Jun-2023** to **28-Jul-2023**.

Project Title – Automotive applications E&E Architecture and Vehicle Performance feature awareness.

Guide Name – Sanjaya K Behera

Her performance exceeded guide's expectation during this period.

We wish her the best for all her future endeavors.

For Cummins India Limited

Rupali Agashe HR Lead EBU Custodial Functions

Cummins Technical Centre India Division of Cummins Technologies India Private Limited Survey No. 31(pt), 32(pt), 33(pt), Dahanukar Colony, Kothrud, Pune 411038, Maharashtra, India Phone number +91 020 2538 5435 / 2538 0240 Cumminsindia.com ctipl@cummins.com

Register Office Cummins Technologies India Private Limited, Cummins India Office Campus Towe A,2nd, 4th & 8th Floor, Survey No. 21, Balewadi,Pune 411045,Maharastra, India CIN:U29113PN1994FTC139153 Reference: Edgelytics Solutions Pvt. Ltd./HRD/2023/AUG/01



TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Sakshi Sachin Kulkarni a 2rd year Engineering student from Instrumentation Department of MKSSS Cummins College of Engineering for Women has completed summer internship at our company for the period 15 June 2023 to 30 Jul 2023.

Sakshi learnt Arduino programming and applied her knowledge and built firmware as a part of our new product development. She is enthusiastic, quick learner, and methodical in her approach. We would like her to keep the association with us for her upcoming internships.

With Best wishes,

Sincerely,

Rajendra Sapre,

Director, Edgelytics Solutions Pvt. Ltd.

> A201, Nakshatra Apts, S.No 14, Erandwane, Pune 411004. Maharashtra. INDIA info@edgelytics.in | <u>www.edgelytics.in</u> |Contact No: +91 76662 79054 GSTIN: 27AAECE6937H1ZE





शिक्षा मंत्रालय MINISTRY OF EDUCATION



Cisco AICTE Virtual Internship Program 2023

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Cisco Networking Academy grants this recognition to Vaishnavi Rajendra Morge

MKSSS's CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE

for successfully completing the Virtual Internship Program in Cybersecurity

Marcella O' Shea Regional Manager APJC, Corporate Affairs, Cisco

Program Partners



d'A





Student ID- STU645e6136ac5b11683906870





शिक्षा मंत्रालय MINISTRY OF EDUCATION



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Cisco Networking Academy grants this recognition to Vaishnavi Rajendra Morge

MKSSS's CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE

for successfully completing the Virtual Internship Program in Cybersecurity

Marcella O' Shea Regional Manager APJC, Corporate Affairs, Cisco

Program Partners



d'A





Student ID- STU645e6136ac5b11683906870



Cisco Networking Academy grants this recognition to Aboli Anil Giri

MKSSS's CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE

for successfully completing the Virtual Internship Program in Cybersecurity

Marcella O' Shea Regional Manager APJC, Corporate Affairs, Cisco

Program Partners







EF Foundation

Student ID- STU645e7f63c52791683914595





रिक्षा मंत्रालय MINISTRY OF EDUCATION



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Cisco Networking Academy grants this recognition to Vaishnavi Vijay Dudhani

MKSSS's CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE

for successfully completing the Virtual Internship Program in Cybersecurity

Marcella O' Shea Regional Manager APJC, Corporate Affairs, Cisco

Program Partners



d'A





Student ID- STU646235efab95f1684157935

PROJECT REPORT ON

AUTOMATED TESTING OF CODESYS PROJECT USING TEST MANAGER AND CO-UNIT TOOLS.

BY

Ms. Sambodhi Badve	- C22019331503
Ms. Namita Biyani	- C22019331505
Ms. Isha Tulapurkar	- C22019331556
Ms. Yutika Subundh	- C22019331555

Under the Internal Guidance of Dr.Swati Madhe.

Under the Company Guidance of Mrs. Reshma Kunjir



Cummins College of Engineering for Women, Pune-411052 Department of Instrumentation and Control (2022-23)

CERTIFICATE

MKSSS's

Cummins College of Engineering for Women, Pune.

(An Autonomous Institute affiliated to Savitribai Phule Pune University)

Department of Instrumentation & Control

This is to certify that the project titled

"Automated Testing of CODESYS Project Using Test Manager and CoUnit Tools" is a bonafide record of project presented at this institute

By

Ms. Isha Tulapurkar Ms. Namita Biyani Ms. Sambodhi Badve Ms. Yutika Subandh

In completion of project work for Fourth Year

In

Instrumentation & Control Engineering

In the academic year 2022-23 as prescribed by Savitribai Phule Pune University. This project is record of their own work carried out under our supervision and guidance.

Dr. Swati Madhe College Guide

Mrs. Reshma Kunjir Dr. Anagha Panditrao Company Guide

HOD Instrumentation & Control

Dr. Madhuri Khambete Director

Abstract

PLCs are computer devices often used in industrial control systems as primary components that provide operational control and monitoring. The software running on these controllers is usually programmed in an IDE using a graphical or textual language defined in the IEC 61131-3 standard.

Although traditionally, engineers have tested PLCs' software manually, test automation is being adopted during development in various compliant development environments. Via this project, we are trying to tackle the problem of choosing a test automation framework for testing PLCs, by focusing on the CODESYS development environment.

Test automation can be defined as the process of automating software testing tasks such as test script development, test execution, and requirements verification using an automation test framework. The importance of choosing the right test automation tool has received significant attention from both academia and industry in recent years. There are various frameworks and tools that are being used to automate testing in the industry today[8].

The objective of the project is to automatically test ifm IoTCore library and edge controller library and their function blocks (which are used to gather data from sensors) using two software's. To develop this, it is necessary to understand different IoT communication protocols, ifm IoT core libraries, and different software that are being developed for automated testing.

We will be gathering data from IoT sensors which are connected to IoT gateways and this data will be displayed on the HMI. IoT sensors perform functions like data conversion, digital processing, and communication with external devices and the Cloud. IoT gateway that we are asing requires IoT sensors for sending data to the cloud or to locally analyse information. The IoT devices are connected to AL Master which is the gateway for establishing the communication between IoT devices and edge controller which has an HMI screen. To get the data of these IoT devices a connection must be established between the controller and IoT devices.

Through extensive research and study of various frameworks and software's we have selected two automation software's that were not only compatible with CODESYS but that have also gained popularity in industries for automated testing of PLC's, we have chosen two automation software i.e., CODESYS Test Manager which requires licence and is a paid software and CODESYS Co-unit which is a freeware, using these two software's we will be testing ifm IoT library function blocks, these function blocks will be used to collect and analyse the data from the sensor and in the end a comparison between the two software's will be drawn out to determine which software will work the best for PLC software.

Final Year Project Report on Load Cell Based Level Transmitter

by

Sakshi Pandule	-	C22020332510
Shivani Said		C22020332513
Rutuja Vaidya	$\sim 10^{-1}$	C22020332516
Mrunali Zarekar	-	C22020332517

Under the Guidance of

Dr. Vaishali Upadhye



Department of Instrumentation and Control Cummins College of Engineering for Women, Pune-411052 (2022-23)

CERTIFICATE

MKSSS's Cummins College of Engineering for Women, Pune

Department of Instrumentation & Control

This is to certify that the final Year project entitled "Load cell based level Transmitter" is a bonafide record of Final Year project presented in this institute

Sakshi Pandule	
Shivani Said	
Rutuja Vaidya	
Mrunali Zarekar	

C22020332510 C22020332513 C22020332516 C22020332517

In partial completion of term work for the final year

ln,

Instrumentation & Control Engineering

in the academic year 2022-23 as prescribed by in the curriculum. This final year project is a record of her own work carried out under our supervision and guidance

Dr. Vaishali Upadhye

itra

Dr. Mrs. Anagha Panditrao

HOD, Instrumentation & Control

MBK-1-

Dr. Mrs. Madhuri Khambete

Principal

Guide

Abstract

The proposed novel system consists of a loadcell and supporting electronic hardware. The loadcell is attached to a Plastic pipe and other end of pipe is closed. It acta as a float, The loadcell is installed on top of the tank. So the float will be oriented in to the bottom of the tank. As the liquid is filled in the tank, the force will be exerted on stem and intern on the loadcell. The force on loadcell is converted in to electrical signal. The Same signal is then processed to provide the output as 4-20m Load cell is interfaced to the main controller through HX711 module. Arduino is used for software-based signal conditioning. As we know the output of transmitter is 4 to 20 mA and loadcell gives the output in voltage. So, a V to I converter is connected at the output. The system is capable of connecting display and keyboard for on-site calibration. The calibration constant is stored in the internal memory. The same is used for providing output.

B.Tech. Project Report

nO

"MICROCONTROLLER BASED AUTOMATION OF SHIRODHARA PROCESS"

C22019331537 Ms. Oorja Patil C22019331538 Ms. Shruti Pawar C22020331542 Ms. Swarali Savale C22020331550 Ms. Vaishnavi Sutrave

Under the Guidance

Of

Dr. Atul Joshi



Cummins College of Engineering for Women, Pune

(An Autonomous Institute affiliated to Savitribai Phule Pune University)

(2022-2023)

CERTIFICATE

MKSSS's Cummins College of Engineering for Women, Pune

Department of Instrumentation & Control

This is to certify that the B.Tech. Project Report entitled

"MICROCONTROLLER BASED AUTOMATION OF SHIRODHARA PROCESS"

is bonafide record of B.Tech. Project Report presented in this Institute

> By C22019331537 Ms. Oorja Patil C22019331538 Ms. Shruti Pawar C22020331542 Ms. Swarali Savale C22020331550 Ms. Vaishnavi Sutrave

> > In

Department of Instrumentation & Control Engineering

In the academic year 2022-23 as prescribed by Savitribai Phule Pune University. This B.Tech. Project Report is record of her own carried out work under our supervision and guidance.

Dr. Atul Joshi Project Guide

- Jizas

Dr. Mrs. Anagha Panditrao HOD, Instrumental & Control

Dr. Mrs. Madhuri Khambete Director

ABSTRACT

The term 'Shirodhara' comes from two Sanskrit words, where 'Shiro' means 'head' and 'Dhara' implies to 'flow', together it infers to pouring of warm herbal ayurvedic fluids on the forehead from a specific height, for a specific time period in a continuous stream, allowing the oil to run through the scalp and down into the hair.

The present process requires manual operation in which the operator has to maintain the temperature of the fluid, collect the fluid, refill the vessel and perform oscillations of the vessel. This entire process is tedious and time consuming, hence the aim of the project is to automate the entire process of Shirodhara operation in an efficient and cost-effective manner.

The initial phase of the project consisted of designing and testing of the temperature control loop (continuously stirred system) and the fluid recycling control loop and the second phase involved the designing and building of the Printed circuit board (PCB) and fabrication of the complete Shirodhara apparatus.

JOSHI LABORATORIES

SHOP NO - 7, SHRINIVAS APPARTMENT, SAI CHOWK, NEW SANGVI, PUNE - 4110027 GST NO - 27AAJF14587E1Z2 MOB NO: 9272631540

Date:

To,

Dr. Anagha Panditrao (HoD) Dept. of Instrumentation and Control Cummins College of Engineering for Women Karve nagar, Pune-411052

Subject: Letter for sponsorship

With reference to our discussion regarding the project name as "Semi- automatic "Shirodhara" apparatus', we are pleased to technically sponsor the project for the following Final Year B Tech students of your department for the AY 2022-2023. We will also help to check the performance of the apparatus

C22019331537 C22019331550 C22019331542 C22019331538 Oorja Patil Vaishnavi Sutrave Swarali Savale Shruti Pawar

Thank you.

FOR JOSHI LABORATORIES

Partner,

(For Joshi Laboratories)

B.Tech. Project Report

On

"PORTABLE KASHAYA MAKER"

C22019331515	Ms. Devyani Dhanegave		
C22019331532	Ms. Priyal Mehta		
C22020332507	Ms. Purva Jagadale		
C22020332512	Ms. Vaishnavi Pore		

Under the Guidance

Of Dr. Atul Joshi



Cummins College of Engineering for Women, Pune (An Autonomous Institute affiliated to Savitribai Phule Pune University)

(2022-2023)

Т

CERTIFICATE

MKSSS's Cummins College of Engineering for Women, Pune

Department of Instrumentation & Control

This is to certify that the B.Tech. Project Report entitled

"PORTABLE KASHAYA MAKER"

is bonafide record of B.Tech. Project Report presented in this Institute

	By
C22019331515	Ms. Devyani Dhanegave
C22019331532	Ms. Priyal Mehta
C22020332507	Ms. Purva Jagadale
C22020332512	Ms. Vaishnavi Pore

In

Department of Instrumentation & Control Engineering

The academic year 2022-23 as prescribed by Savitribai Phule Pune University. This B.Tech. Project Report is record of her own carried out work under our supervision and guidance.

1+000

Dr. Mrs. Anagha Panditrao HDD, Instrumental & Control

Dr. Mrs. Madhuri Khambete Director

Abstract

Kashaya is widely used formed of dosage in Ayurveda. Kashaya refers to a water extract of a single Herb or group of Herbs. We have taken this problem statement from the SIH (Smart India Hackathon) Kashaya making process requires strictly continuous monitoring and controlling. As this process takes a lot of time, user stuck in the process.

So, to overcome this problem we are making automatic portable. Kashaya making estem. There is no such product available in the market which follows the traditional method of making Kashaya. We have used HX711 Load Cell Signal Conditioning Module and #K6675 cold junction compensated K thermocouple-to-digital converter, it is interfaced with the Arduino.

Our product is taking inputs from the user like weight of the Kashaya Churna, the mount of water user wants to add and also user can decide amount of Kashaya he want after heating process. After taking the inputs from the user, system will start heating process. During this process system will continuously monitor temperature up to a default given setpoint. Also, system will continuously measure the weight of the mixture. After heating when desirable amount of mixture is produced, our system will stop the heating process.

B.Tech. Project Report

On

"PORTABLE KASHAYA MAKER"

C22019331515	Ms. Devyani Dhanegave		
C22019331532	Ms. Priyal Mehta		
C22020332507	Ms. Purva Jagadale		
C22020332512	Ms. Vaishnavi Pore		

Under the Guidance

Of Dr. Atul Joshi



Cummins College of Engineering for Women, Pune (An Autonomous Institute affiliated to Savitribai Phule Pune University)

(2022-2023)

JOSHI LABORATORIES

SHOP NO – 7, SHRINIVAS APPARTMENT, SAI CHOWK, NEW SANGVI, PUNE – 4110027 GST NO – 27AAJFJ4587E122 MOB NO- 9272631540

Date:

To, Dr. Anagha Panditrao (HoD) Dept. of Instrumentation and Control Cummins College of Engineering for Women Karve nagar, Pune-411052

Subject: Letter for sponsorship

With reference to our discussion regarding the project name as 'Semi-automatic "Kashay" maker, we are pleased to technically sponsor the project for the following Final Year B Tech students of your department for the AY 2022-2023. We will also help to check the performance of Kashay maker.

- 1. C22019331532 Priyal Mehta
- 2. C22019331515 Devyani Dhanegave
- 3. C22020332507 Purva Jagadale
- 4. C22020332512 Vaishnavi Pore

Thank you.

FOR JOSHI LABORATORIES

Partner. PARTNER (For Joshi Laboratories)

PROJECT REPORT On

PID TUNING USING DATA ANALYSIS

Gayatree Borul	C. No.C22019331508		
Savani Kulkarni	C. No. C22019331527		
Kshitija Naik	C. No. C22019331533		
Nidhi Tanksale	C. No. C22019331551		

Under the Guidance of MKSSS's COLLEGE OF ENGINEERING FOR WOMEN

Prof. Manisha Narwane

Cummins College of Engineering for Women, Pune

(2022-2023)

1

MKSSS'S

Cummins College of Engineering for Women, Pune (An Autonomous Institute affiliated to Savitribai Phule Pune University) Department of Instrumentation and control

CERTIFICATE

This is to certify that the B-Tech Project entitled

PID TUNING USING DATA ANALYSIS

is bonafide record of B Tech Project presented in this institute

By

Gavatree Borul C. No.C22019331508 Savani Kulkarni C. No. C22019331527 Kshitija Naik C. No. C22019331533 Nidhi Tanksale C. No. C22019331551

In Department of

Instrumentation & Control Engineering

In the academic year 2022-23 as prescribed by Savitribai Phule Pune University. This

B-Tech-Project is a record of her own carried out under our supervision and guidance.

ditra

Prof. Manisha Narwane Guide

HOD

Dr. Mrs. Anagha Panditrao Dr. Mrs. Madhuri Khambete

Principal

Abstract

PID controllers are found in a wide range of applications for industrial process control. Approximately 95% of the closed-loop operations of the industrial automation sector use PID controllers. PID tuning is the procedure of finding the values of proportional, integral, and derivative gains to achieve desired performance and meet design requirements. These three controllers are combined in such a way that it produces a control signal to regulate various process parameters like temperature, pressure, flow and level in a closed loop. As a feedback controller, it delivers the control output at desired levels. Before microprocessors were invented, PID control was implemented by the pneumatic analog electronic components. But today all PID controllers are processed by the microprocessors. Programmable logic controllers also have the inbuilt PID controller instructions.

PID controllers are generally tuned using various methods in the industries, but most of these methods are ineffective as they do not consider the system variables. The aim of the project is to auto tune a PID controller for DC motor speed control using data analysis. This can be achieved by collection of data from hardware assembly and applying data analysis algorithms such as linear regression on this collected data.

This project focuses on reducing setup time of the real time system by providing accurate tuning parameters from the developed algorithm.



SPONSORSHIP CERTIFICATE

Date: 26/09/2022 To,

Dr. Anagha Panditrao (HoD) Dept. of Instrumentation and Control Cummins College of Engineering for Women Karve nagar, Pune-411052

Subject: Sponsorship letter for Final Year Project

With reference to our discussion regarding the project titled 'PID controller using data analysis', we would like to provide technical sponsorship to the project to implement the Proof-of-Concept (POC). Following students of your department are working on the project during AY 2022-2023.

- 1. C22019331527 Savani Kulkarni
- 2. C22019331551 Nidhi Tanksale
- 3. C22019331533 Kshitija Naik
- 4. C22019331508 Gaytree Borul

Thank you.

Mr. Shrihari Naik Partner Concord Technologies

Concord Technologies

Head Office: 109; Orient Plaza, Pune-Solapur Road, Ramtekol, Hadapsar Pune 411013 74100 20512 | 74100 20513 O www.concordtech.co.in O business@concordtech.co.in

Integrate | Automate | Accelerate

B. Tech Project Report on

'Posture Monitoring Apparatus for Physiotherapy'

by

Miss Aradhana Bakare Miss Kalyani Dalvi Miss Shruti Dalvi (Miss Sharvari Deshpande

(C22019331504) (C22019331510) (C22019331511) (C22019331511)

Under the guidance of Dr. Anagha Panditrao



Department of Instrumentation and Control

MKSSS's Cummins College of Engineering for Women, Pune.

(An Autonomous Institute affiliated with Savitribai Phule Pune University)

(2022 - 2023)

CERTIFICATE

MKSSS's Cummins College of Engineering for Women, Pune.

Department of Instrumentation and Control

This is to certify that the project entitled "Posture Monitoring Apparatus for Physiotherapy" is submitted

by

Ms. Aradhana Bakare:	C22019331504
Ms. Kalyani Dalvi :	C22019331510
Ms. Shruti Dalvi :	C22019331511
Ms. Sharvari Deshpande:	C22019331512

is a record of their work carried out under our supervision and guidance, in partial Completion of team work for the final year in Instrumentation & Control Engineering is a bonafide record of seminar presented in this institute.

In the academic year 2022-2023 as prescribed by Savitribai Phule Pune University. This Project is a record of her work carried out under our supervision and guidance.

Ander

Dr Anagha Panditrao Guide & HoD Instrumentation and Control

Vinden

Dr.Madhuri Khambete Director

Abstract

The increase in technological advancements in recent years has led to the emergence of a new mergele. Although being assisted by machines for small-scale tasks in daily housework makes any life easier, this has caused people to reduce their daily active movements and negatively mers human health.

Expecially during the COVID-19 pandemic, with the conversion of the working style to the new environment, working hours spent at the desk are more than ever. Due to the prolongation if the working time, the employees stay in the same position more inactive, thus their muscles worken and they start to have muscle disease. Weaknesses in the muscles have occurred to the termition of postural problems in people.

Exchaplegy advancements in wireless communication and embedded computing are fostering their evolution from standalone elements to smart objects seamlessly integrated in the broader context of the Internet of Things. In this context, wearable sensors represent the building block for new cyber-physical social systems, which aim at improving the well-being of people by monitoring and measuring their activities and providing immediate feedback to the users.

In our project we will be designing posture monitoring apparatus for physiotherapy. The efficacy of home-based physiotherapy depends on the correct and systematic execution of mescribed exercises. Biofeedback's systems enable it to accurately track exercise execution and prevent patients from unconsciously introducing incorrect postures or improper muscular loads in the prescribed exercises. This is often achieved using an inertial sensor as it can be used to monitor human motion variables and muscular activation.

The main aim of the system is to detect the correct or incorrect posture by detecting the changes occurring in human posture using sensors i.e. accelerometer sensor. The changes occurring in different directions left, right, forward and backward are detected using the sensor, by which angles are calculated depending on the direction of tiltation of the body.

Depending on the threshold set by the physiotherapist the patient will continue the movement, and once the angle of movement is equal to threshold the beep will be given by the buzzer. The proposed methodology will be applied to a controlled laboratory trial, for a set of different exercises often prescribed by physiotherapists.

Final Year Project Report

on

ETHYLENE OXIDE, PROPYLENE OXIDE-INSTRUMENTATION AND CONTROL ENGINEERING

Deeksha Jagtap	C.No. 22019331521
Srushti Khomane	C.No. 22019331525
Priti Khopade	C.No. 22019331526
Sanjana Yadav	C.No. 22019331554

Under the Guidance of

Dr.Vaishali Upadhye



Cummins College of Engineering for Women, Pune

(An Autonomous Institute affiliated to Savitribai Phule, Pune University) (2022-23)

CERTIFICATE

Cummins College of Engineering for Women, Pune

An Autonomous Institute affiliated to Savitribai Phule, Pune University)

This is to certify that the Final Year Project entitled "ETHYLENE OXIDE, PROPYLENE OXIDE- INSTRUMENTATION AND CONTROL ENGINEERING" is Bonafide record of Final Year Project presented in this institute by

> Deeksha Jagtap Priti Khopade Srushti Khomane Sanjana Yadav

> > in

Department of Instrumentation & Control Engineering

In the academic year 2022-23 as prescribed by Savitribai Phule Pune University. This Final Year Project is a record of her own carried out under our supervision and guidance.

Vaishali

Marieras

Dr. Vaishali Upadhye Guide Dr. Mrs. Anagha Panditrao HOD, Instrumentation & Control Dr. Mrs. Madhuri Khambete Principal

CERTIFICATE OF COMPANY

This certificate is to acknowledge that following students: Deeksha Jagtap, Srushti Chomane, Priti Khopade, Sanjana Yadav from Cummins College of Engineering. Pune have successfully completed a project at our company, Worley, Pune in the academic year 2022-2023. Throughout the duration of the project, they have demonstrated a high level of commitment and dedication to their work. During the project they have successfully completed the tasks assigned to them. We wish them good luck for their future career.

Sandeep Palve,

5.6. Pulle 26/05/2023



Dy. Manager Control & Instrumentation Engineering Department Worley India Pvt. Ltd

9th Floor, Amar Tech Park, Patil Nagar, Balewadi Hinjewadi Road, Next to Mitcon School, Opp. Balewadi Stadium, Pune-411045

ABSTRACT

To develop this DEDD it is necessary to understand different instrumentation ing standards like ISA ISO, API, ASME, IEC etc. To execute the above objective, the project from client Worley, Pune as a case study. During this project, we mined functioning, roles & responsibilities of different engineering departments, project contracts, project stages and the entire project cycle along with the approval process of various deliverables and documents. This report includes Instrumentation Engineering Deliverables prepared on the basis of various inputs. P&ID is the first input document to all the disciplines to start the engineering in all phases of project. The deliverables include: Instrumentation Index, IO List, Instrument Data Sheets, Material Requisition, Instrument Installation Details (Hook Ups),Instrument Cable Schedule, Loop Drawings, etc.

Page 7 110

Project Report

ОП

AUTOMATIC AYURVEDIC MEDICINE MAKER

Sanjana Sonavane	Roll No : 4542	C.No:	C22019331549	
Vaishnavi Bhagat	Roll No : 4552	C.No:	C22020332502	
Sushmita Gandhi	Roll No : 4555	C.No:	C22020332505	
Vaishnavi Sarode	Roll No : 4564	C.No:	C22020332514	

Under the Guidance

Of

Prof. H.T.Patil



Cummins College of Engineering for Women, Pune

(An Autonomous Institute affiliated to Savitribai Phule Pune University)

MKSSS's

Cummins College of Engineering for Women, Pune

(An Autonomous Institute affiliated to Savitribai Phule Pune University)

Department of Instrumentation and Control

CERTIFICATE

This is to certify that the B-tech Project entitled "Automatic Ayurvedic Medicine Maker"

is a bonafide record of B-tech Project presented in this institute

By

Sanjana Sonavane Vaishnavi Bhagat Sushmita Gandhi Vaishnavi Sarode

In Department of

Instrumentation & Control Engineering

In the academic year 2022-23 as prescribed by Savitribai Phule Pune University. This B-Tech-Project is a record of her own carried out under our supervision and guidance.

Prodition

Dr. Mrs. Anagha Panditrao

inching

Dr. Mrs. Madhuri Khambete

Project Guide

HOD, Instrumental & Control

Principal

ABSTRACT

The Conventional method for the preparation of Ayurvedic medicine is the Manual method. Monitoring of the quantity of the ingredients, constant low temperature, Rate of production, Cest and reliability are some of the drawbacks of the manual method. Therefore to overcome these drawbacks an Automatic Ayurvedic Medicine Maker can be employed. It will overcome the above mentioned drawbacks with the implementation of mechanisms like automatic weight measurement, automatic temperature measurement and control, and an automatic stirrer The system developed is user friendly and cost effective.

Keywords : Arduino, weighing, mixing unit, medicines





V S INSTRUMENTS

 Regd
 Off
 : Ganga-Prasad
 Near S
 B
 Litho press, Mahaveer Nagar, SANGLI - 416 416 (M S.)

 Works
 Plot No 77/78, C
 S. No 4465. Industrial Estate
 SANGLI - 416 416 (M S.)

 Phone
 (0233) 2312656, E-mail
 vsinstruments@yahoo.co.in
 Visit Us : www.vsinstrument.com

Date 21/09/2022 To, Dr. Anagha Panditrac (HoD) Dept of Instrumentation and Control Cummins College of Engineering for Women Karve nagar, Pune-411052

Subject: Letter for sponsorship

With reference to our discussion on the final year project, we are pleased to technically sponsor and help to implement the Proof of Concept (PoC) of the project. The details of the project are as follows:

Title: "Semi-automatic Ayurvedic Medicine Maker" Year: 2022-23 Dept.: Instrumentation and Control Students: Final Year B. Tech students

- 1. C22020332505 Sushmita Gandhi
- 2. C22020332514 Vaishnavi Sarode
- 3. C22020332502 Vaishnavi Bhagat
- 4. C22019331549 Sanjana Sonavane

Thank you For V S Instruments

athall

Vinod Gokhale Managing Partner

MANUFACTURER OF

White a stating Planet Out interests in 1 ED Interesting Latters, Eachers, Latters, Aleren Aleren Aleren More, Chemiser, Husses, Avenue, Annue, Stating Vallensing, Dr. Meters and Vallensing, Avenue, Avenue,

Final Year-Project Report On <u>CELL</u> <u>INCUBATOR</u>

by

Ms.Pratiksha Anarase	_C22019331501
Ms.Vaishnavi Borade	_C22019331507
Ms.Sakshi Ghugare	_C22019331517
Ms.Anushkaa Govande	_C22019331518
Ms.Akanksha Jagadale	C22019331519

Under the Guidance of

prof. Pratima Kulkarni And Dr. Dhananjay Bodas.



Department of Instrumentation and Control Cummins College of Engineering for Women, Pune-411052

(2022 - 2023)

1

CERTIFICATE

MKSSS's Cummins College of Engineering for Women, Pune Department of Instrumentation & Control

This is to certify that the project entitled "DESIGN OF CELL INCUBATOR" is a bonafide record of project presented in this institute

by

Ms.Pratiksha Anarase Ms.Vaishnavi Borade Ms.Sakshi Ghugare Ms.Anushkaa Govande Ms.Akanksha Jagadale

In partial completion of project for the final year

In

Instrumentation & Control Engineering

In the academic year 2022-23 as prescribed by Savitribai Phule Pune University. This project is a record of their own work carried out under our supervision and guidance.

ABOLIERAS

Prof.Pratima Kulkarni Dr.Dhananjay Bodas Dr.Anagha Panditrao Dr.Madhuri Khambete Guide Guide HOD (IN) Principal

2

Abstract

We are creating and testing a cell culture incubator that will maintain a specific internal environment while being compatible with an inverted microscope. The internal environment must be 37°C, 95%+ humidity, 5ul/min flow and contain 5% CO2 in the box. There are current designs on the market that meet this criteria, but the inverted microscope is encapsulated into the incubator making it bulky and inconvenient to disassemble. We are going to design a cell incubator that will be portable and small enough to fit on the inverted microscope stage, allowing the user to view live cells inside of the incubator. The incubator will include a heated water pump and CO2 pump in order to reach the required environment for the cell. Transparency, heating, and insulation testing will be conducted on various materials to find the optimal combination for the incubator.



महारण्ट विज्ञान वर्धिनी आघारकर अनुसंधान संस्था Maharashtra Association for the Cultivation of Science AGHARKAR RESEARCH INSTITUTE (An Autonomous Grant-in-aid Institute under

the Department of Science and Technology, Govt. Of India)

21 September 2022;

SPONSORSHIP CERTIFICATE

To,

Dr. Anagha Panditrao

HoD, Instrumentation and Control Department

Cummins College of Engineering for Women Pune

Subject: Sponsorship letter for Final Year Project

We would like to inform you that we are interested in providing technical sponsorship to the project entitled 'Design of Cell Incubator' for the following Final Year BTech students of your department for the AY 2022-2023.

- 1. Anushka Govande
- 2. Sakshi Ghugare
- 3. Pratiksha Anarse
- 4. Vaishnavi Borade
- 5. Akanksha Jagdale

Thank you, exceed the expectations. Please feel free to contact me for any further information.

Dr. Dhananjay Bodas Scientist Nanobioscience group, Agharkar Research Institute GG Agarkar road, Pune 411 004 India dsbodas@anpune.org

अगगका पह, पूर्ण-411 004, भागत, पुरभाष (020) 2567 8916/17/18, 2567 4357, 2565 3680 फंक्स (020) 2565 1542 Agarkar Road, Pune: 411 004, India, Phone: (020) 2567 8916/17/18, 2565 4357, 2565 3680 Fax.: (020) 2565 1542 Web. www.aripune.org E-mail: arimacs@pn2.vsnl.net.in Project Report Entitled "DESIGN OF SMART SHOE"

AKSHATA BODHALE	C22019331506
SHRUSHTI RAUT	C22019331541
ANUSHKA SAWAI	C22019331543
SHARVARY VAIDYA	C22019331553

Under the Guidance of

Prof.Pratima Kulkarni Dr. Dhananjay Bodas



Department of Instrumentation and Control MKSSS's Cummins College of Engineering for Women, Pune (An Autonomous Institute Affiliated to Savitribai Phule Pune University)

MKSSS's

Cummins College of Engineering for Women, Pune

Department of Instrumentation and Control (An Autonomous Institute affiliated to Savitribai Phule Pune University)

CERTIFICATE

This is to certify that the Final Year-Project-Seminar entitled

"SMART SHOE"

is a bonafide record Project presented in this institute

By

Akshata Bodhale

Shrushti Raut

Anushka Sawai

Sharvary Vaidya

In completion of term work for the final year in

Instrumentation & Control Engineering

In the academic year 2022-23 as prescribed by Savitribai Phule Pune University. This Project is work of her own carried out under our supervision and guidance.

Prof. Pratima Kulkarni

And itos

Dr. Mrs. Anagha Panditrao

HOD, Instrument & Control

Dr. Dhananjay Bodas

Guide MK Kind

Dr. Mrs. Madhuri Khambete

Principal



आघारकर अनुसंधान संस्था Maharashtra Association for the Cultivation of Science AGHARKAR RESEARCH INSTITUTE

(An Autonomous Grant-in-aid Institute under the Department of Science and Technology, Govt. Of India)

SONSORSHIP CENTIFICATE

To,

Dr. Anagha Panditrao

- 1001

HoD, Instrumentation and Control Department

Cummins College of Engineering for Women Pune

Subject: Sponsorship letter for Final Year Project

We would like to inform you that we are interested in providing technical sponsorship to the project entitled 'Design of Smart Shoe' for the following Final Year BTech students of your department for the AY 2022-2023.

- 1. Shrushti Raut
- 2. Sharvary Vaidya
- Anushka Sawai
- 4. Akshata Bodhale

Thank you, exceed the expectations. Please feel five to contact me for any further information.

Dr. Dhananjay Bodas Scientisi Nanobioscience group, Agharkar Research Institute GG Agarkar road, Pune 411 004 India dabadas@aripune.org

ווויזאד עזו, עול-411 004, עדרה פרשע 2020) 2567 1916/17/18, 2567 4357, 2565 3680 לפאר 2020) 2565 1542 Agarkar Road, Pone: 411 004, India, Phone: (020) 2567 1916/17/18, 2565 4357, 2565 3680 Fax : (020) 2565 1542 Web; www.aripune.org E-mail: arimacs@pn2.varl.net.in

ABSTRACT

Technology only advances as years go by. One of the most outstanding devices that have been benefiting mankind for years now is "sensors".

The design of the Smart Shoe project is focused on the development of prototype footwear that can track and analyze various aspects of an individual's gait pattern.

The Smart Shoe is equipped with advanced sensors and technologies, including pressure sensors, accelerometers, heart rate sensors, and GPS.

The Smart Shoe can provide real-time feedback on an individual's gait pattern, allowing for immediate adjustments and improvements. Additionally, the Smart Shoe is wearable and noninvasive, making it a convenient option for gait analysis.

The purpose of this project is to design and develop a Smart Shoe prototype that offers features such as activity tracking, GPS navigation, and health monitoring.

As per the research, there are a total of 18 pressure points from which there are 3 points where the pressure is maximum, where pressure sensors are to be placed. The three positions are: (1) at the toe (2) in the middle of the feet (3) at the heel. The device also uses an accelerometer which will help record trips/falls while carrying out any activity. LED-based pulse sensors will give data about the heartbeat.

GPS sensor is used to record the location and this location can be sent to our close ones for security purposes and also give us the speed, time, and distance covered. The smart shoe is connected to the phone via a Bluetooth module.

The Smart Shoe is a device that will help individuals track their physical activities, monitor their health, and provide location-based services. Project Report on

IoT ENABLED ASSITIVE TOOL FOR SAFETY IN MOUNTAINEERING

by

Deeksha Sharma Rohini Raghuwanshi Tanvi Chandak CNUM: C22019331545 CNUM: C22019331540 CNUM: C22019331509

under the guidance

of

Dr. Dipali Ramdasi



MKSSS's Cummins College of Engineering for

WOMED, PUDP

(An Autonomous Institute affiliated to Savitribai Phule Pune University)

(2022-2023)

MKSSS's

Cummins College of Engineering for Women, Pune

(An Autonomous Institute affiliated to Savitribai Phule Pune

University)

Department of Instrumentation and Control

CERTIFICATE

This is to certify that the Project report entitled

"IoT ENABLED ASSISTIVE TOOL FOR SAFETY IN MOUNTAINEERING"

is a bonafide record of Project Report presented in this institute

by

Deeksha Sharma Rohini Raghuwanshi Tanvi Chandak

in

Instrumentation and Control Engineering

in the academic year 2022-2023 as prescribed by Savitribai Phule Pune University.

This Project report is a record of their own carried out under our supervision and guidance.

Dr. Dipali Ramdasi Guide

Dr. Anagha Panditrao HoD, Instrumentation and Control

Dr. Madhuri Khambete Director

Dame: 18" Apr 2023

-



Dr. Anagha Panditrao (HoD)

Dept. of Instrumentation and Control

----- Osliege of Engineering for Women.

Karve nagar, Pune-411052

Subject: Support and Consultancy in the Scientific Project

with reference to our discussion on the final year project, GGIM is pleased to provide technical support and computancy in our best capacities for the implementation of the Proof of Concept (PoC) of the project. The details of the project are as follows:

Title: "IoT enabled Assistive tool for safety in Mountaineering"

Teat: 2022-23

Dept.: Instrumentation and Control

Students: Final Year B. Tech students

- 1. C22019331509 Tanvi Chandak
- Z. C22019331540 Rohini Raghuwanshi
- 3. C22019331545 Deeksha Sharma

Thank you.



Bhushan Harshe

Head Operations, GGIM

9822323147

Office Address: 1233/A Saichhaya Apt. Behind IDBI bank, Apte Road, Deccan Gymkhana, Pune 04 Phone – 9769302934/9822323147 [email – ggimpune@gmail.com, info@ggim.in | www.ggim.in

IoT Enabled Assistive Tool for Safety in Mountaineering

Abstract

Mountaineering and trekking are outdoor activities that attract thousands of enthusiasts each year. These activities often take place in remote and isolated areas, where medical assistance is scarce, and rescue operations are challenging. When trekkers are injured in such areas, they face significant challenges in accessing help due to the harsh terrain, limited resources and most notably due to lack of communication infrastructure. There is a need for an efficient, flexible, and economical solution for safety in mountaineering and other long-distance remote use cases where cellular networks prove ineffective. One of the promising technologies suitable for this application is the LoRa (long range) Network, which is used for communication in isolated areas such as wooded areas (forests) with more minor power consumption. Fast and low-effort localization can potentially increase the chances of saving injured individuals' lives. The proposed system aims to develop an IoT based system to ensure safety in mountaineers

Keywords

IoT, mountaineering, wireless communication, peer-to-peer network



Date: 18th Apr 2023

To,

Dr. Anagha Panditrao (HoD)

Dept. of Instrumentation and Control

Cummins College of Engineering for Women

Karve nagar, Pune-411052

Subject: Support and Consultancy in the Scientific Project

With reference to our discussion on the final year project, GGIM is pleased to provide technical support and consultancy in our best capacities for the implementation of the Proof of Concept (PoC) of the project. The details of the project are as follows:

Title: "IoT enabled Assistive tool for safety in Mountaineering"

Year: 2022-23

Dept.: Instrumentation and Control

Students: Final Year B. Tech students

- 1. C22019331509 Tanvi Chandak
- 2. C22019331540 Rohini Raghuwanshi
- 3. C22019331545 Deeksha Sharma

Thank you.



Bhushan Harshe

Head Operations, GGIM

9822323147

Office Address: 1233/A Saichhaya Apt. Behind IDBI bank, Apte Road, Deccan Gymkhana, Pune 04 Phone – 9769302934/9822323147 | email – ggimpune@gmail.com, info@ggim.in | www.ggim.in Final Year Project Report

on

LPG LEAKAGE DETECTION AND ALERT INDICATION SYSTEM

BY

Vaishnavi P. Shinde Roll No: 4540 C. No. C22019331546 Pratiksha P. Taru Roll No: 4545 C. No. C22019331552 Vaishnavi G. Jadhav Roll No: 4556 C. No. C22020332506 Vaishnavi R. Shinde Roll No: 4565 C. No. C22020332515

Under the Guidance of **Dr. Revathi Shriram**



Cummins College of Engineering for Women, Pune (An Autonomous Institute affiliated to Savitribai Phule Pune University) (2022-2023)

CERTIFICATE

MKSSS's

Department of Instrumentation and Control **Cummins College of Engineering for Women, Pune** (An Autonomous Institute affiliated to Savitribai Phule Pune University)

This is to certify that the Final Year Project entitled

"LPG LEAKAGE DETECTION AND ALERT INDICATION SYSTEM"

is bonafide record of project presented in this institute

By

Vaishnavi P. Shinde

Pratiksha Taru

Vaishnavi Jadhav

Vaishnavi R. Shinde

In

Instrumentation & Control Engineering

In the academic year 2022-23 as prescribed by Savitribai Phule Pune University. This final-year-Project is a record of her own carried out under our supervision and guidance.

Dr. Revathi Shriram

Guide

Dr. Mrs. Anagha Panditrao HOD, Instrumental Control

Dr. Mrs. Madhuri Khambete Director

Final Year Project Report

on

"A Multi-Functional Agricultural Robot"

Vaishnavi Dhakne - 4513, C22019331513 Elishma Gadkar - 4554, C22020332504 Ashlesha Kadam - 4558, C22020332508 Vashishti Magar – 4559, C22020332509

> Under the Guidance of Prof. Yashwant Adhav



Cummins College of Engineering for Women, Pune. (An Autonomous Institute affiliated to Savitribai Phule Pune

> University) (2022- 2023)

MKSSS's

Cummins College of Engineering for Women, Pune

(An Autonomous Institute affiliated to Savitribai Phule Pune University)

Department of Instrumentation and Control

CERTIFICATE

This is to Certify that the Final Project Seminar entitled

"A Multi- Functional Agricultural Robot"

Is Bonafide record of project presented in this institute

By

Vaishnavi Dhakne

Elishma Gadkar

Ashlesha Kadam

Vashishti Magar

In

Instrumentation and Control Engineering

In the Academic year 2022- 2023 as prescribed by Savitribai Phule Pune University.

This Final Project is a record of her own carried out under our supervision and guidance.

hoditor

Prof. Yashwant Adhay

Dr. Anagha Panditrao

mbkink

Dr. Madhuri Khambete

Guide

HOD, Instrumentation & Control Dept.

Director



A Project seminar report

On

Secure Wireless Controller of traffic signals in peak

hours

By

1) Pranita Galande C22019331516

2) Namrata Jagdale C22019331520

3) Prachi Mahajan C22019331529

4) Sakshi Pohekar C22019331534

Under the guidance of

Prof. Megha S Galphade



Cummins College of Engineering for Women, Pune Autonomous Institute affiliated to Savitribai Phule Pune University) (2022-2023)



CERTIFICATE

This is to certify that project titled "Secure Wireless Controller of traffic signals in peak hours" is a Bonafide record of Project carried out by the following students of Final year of Instrumentation and Control Engineering.

Sr.No.	Name	Roll no.
1)	Pranita Galande	(4516)
2)	Namrata Jagdale	(4520)
3)	Prachi Mahajan.	(4527)
4)	Sakshi Pohekar	(4534)

Prof. Megha S Galphade

Arbiditras

Project Guide

Dr.Mrs.Anagha Panditrao Head of Department

(Instrumentation and Control)

Dr.Mrs.Madhuri Khambate

Director



Abstract

Traffic congestion is the biggest problem faced by densely populated countries like India, China etc. So,our project focuses on three areas-Ambulance, Priority vehicles like VIP cars, police jeeps and Traffic density Control.

In the world of Innovative and automotive world everything is getting computerized. Each data is in effect effortlessly available. Yet, the movement signals checking is as yet done physically. The activity signals are observed physically from the control room by the executives or a predictable time is settled for signals evolving. Rather than this a computerized controller-based activity checking framework will be useful for controlling the movement. This plan of movement foundation will be useful in decreasing the activity clog issue in urban communities. This paper depicts a framework where IR sensors are incorporated with an Arduino to work the paths which measure the movement thickness. This incorporated arrangement of movement is Internet of Things (Io'T) based which likewise empowers to clear the activity for emergency vehicle by giving a catch in rescue vehicle so the activity gets cleared on that side. It additionally empowers the vehicles tally that move over the sensor.

This project is a replica of a four way lane crossing of real time scenario. In the first part, concentrated on problems faced by Ambulances, RFID concept is used to make the Ambulance's lane Green and thus providing a stoppage free way for the Ambulance. In the second part, concentrated on problems faced by Priority vehicles, IR transmitter and receiver are used to make the vehicles' lane Green and thus preventing traffic congestion. In the third part, concentrated on Traffic density control, IR transmitter and receiver are used to provide dynamic traffic control and thus increasing the duration of the Green light of the lane in which traffic density is high and hence, regulating traffic

FINAL YEAR PROJECT REPORT

ON

MOOD DISORDER DETECTION SYSTEM

SUBMITTED BY SALONI BADAVE(C.No:C22019331502) BHAGYASHREE DHAMANE (C.No:C22019331514)

ANUSREE MANDAL (C.No:C22019331530)

UNDER THE GUIDANCE

OF DR. NIVEDITA DAIMIWAL



DEPARTMENT OF INSTRUMENTATION AND CONTROL

Cummins College of Engineering for Women, Pune (An Autonomous Institute affiliated to Savitribai Phule Pune University) (2022-2023)

CERTIFICATE

MKSSS Cummins College of Engineering for Women, Pune Department Of Instrumentation and Control

This is to certify that the Final year Project-Seminar entitled

"MOOD DISORDER DETECTION SYSTEM"

is bonafide record of Final year Project-Seminar presented in this institute

By

Saloni Badave

Bhagyashree Dhamane

Anushree Mandal

In

Instrumentation & Control Engineering

In partial completion of team work for final year in Instrumentation and Control

In the academic year 2022-23 as prescribed by Savitribai Phule Pune University. This seminar is a record of her own work carried out under our supervision.

Daimina

Dr. Nivedita Daimiwal Guide

Maritras

Dr. Mrs. Anagha Panditrao HOD

Dr.Mrs.Madhuri Khambete Director, Principal

2

ABSTRACT

Mood disorder is often overlooked and there are people who think that mood disorder is "all in your head". As per the record of World Health Organization (WHO), 5% of the adults are suffering from it.

If one has Mood disorder, the general emotional state or mood is distorted or inconsistent with your circumstances and interferes with one's ability to function. Mental illness is still a taboo. People hesitate to consult a health specialist; hence a system is required as an early detection.

The primary objective is to improve this situation by designing a user-friendly mobile application. In the proposed application, the condition of the people will be analysed with the help of standard Mood Disorder Questionnaire (MDQ), Emotion analysis using face detection with the help of image processing in Python, EEG signals and PPG signals.

The results received from above mentioned analysis will determine the severity level of mood disorder using machine learning algorithm. Depending on the severity several activities will be given.

These activities will include some yoga, games, meditation and exercise. Users are suggested to take the above four tests every week to check the progress. In case of high severity, according to the user's location, a suggested list of health specialists will be recommended.

A Project Report on

Crack Detection For Canal Inspection using Autonomous Underwater Vehicle (AUV)

By

Ms. Megha Karanje	(C22019331523)
Ms. Kalyani Mahajan	(C22019331528)
Ms. Indraja Patil	(C22019331535)
Ms. Shruthi Shukla	(C22019331547)

Under the Guidance of

Dr. Swati Madhe (Internal Guide)

Mr. Vishwajeet Gokhale (External Guide)



Department of Instrumentation and Control MKSSS's Cummins College of Engineering for Women, Pune - 411052 (2022-2023)

CERTIFICATE

MKSSS's Cummins College of Engineering for Women, Pune

Department of Instrumentation and Control

This is to certify that the Final Year-Project-Report entitled "Crack Detection for Canal Inspection using Autonomous Underwater Vehicle (AUV)" is bonafide record of Final Year-Project-Seminar presented in this institute

By

Megha Karanje Kalyani Mahajan Indraja Patil Shruthi Shukla

In partial completion of term work for the Final Year in

Instrumentation & Control Engineering

In the academic year 2022-23 (Phase II) as prescribed by Savitribai Phule Pune University. This Final Year-Project Report is the record of her own carried out under us supervision and guidance.

Dr. Swati Madhe

Project Guide

dita

Dr. Mrs. Anagha Panditrao

HOD,Instrumentation & Control

Dr. Mrs. Madhuri Khambete

Director

GCOEW. Department of Instrumentation and Control Engineering 2022-2023

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Making Inquinity, Printlet

Date 3" Oct 2022

To NICEESS'S Ourmine College of Lingp. for Vilumen Pume

Sieb. Sponsorship Letter

Feel Problem Statement for Crack Detection for Canal trapection by using Automoreura and invester Vehicle.

Kind Attno- Dr. Anapha Planditrao – HOD , Instrumentation & Controls Dr. Swell Modile – Faculty Advance.

Madam

With reference to the above we are pleased to sponsor the following team for the proved. "Crack Detection for Canal Inspection by using Autonomous Underwater Vehicle"

- 1. Mr. Megha Karanje
- 2 Min Katyani Mahajan
- 3. Mn. Shruthi Shukla
- 4. Ma Indraja Patil

Thanks & Regards

For Dimension



Vishwajeet Gokhale Managing Director



MILSSS's Cummins College of Enga For Women		
Inward No.	2169	
Date	6-10-2022	

That MEDI

2nd Floor, Raid-Amaral Building, Accar Marathe School, Smallinger, Disease, Phote #11 (943 miles Planne: +94-20-24390521 - Call -911 (9522): 13224 Email: subscience@htmac.accar.exam.

B-TECH Project-Seminar Report on "SOIL NUTRIENTS ANALYSIS" By

Ms. Mayuri Lokade	Roll no.4550	C no. C22018331530
Ms. Jayashree Chepure	Roll no.4553	C no. C22020332503
Ms. Swarupa Phulari	Roll no.4561	C no. C22020332511

Under the Guidance

of Prof. Sheetal katwe



Cummins College of Engineering for Women, Pune (AnAutonomous Institute affiliated to Savitribai Phule Pune University) (2022-2023)

MKSSS's

Cummins College of Engineering for Women, Pune (AnAutonomous Institute affiliated to Savitribai Phule Pune University) Department of Instrumentation and Control

CERTIFICATE

This is to certify that the B-TECH Project-Seminar entitled "SOIL NUTRIENTS ANALYSIS"

is bonafide record of B-TECH Project-Seminar presented in this institute

By

Mayuri Lokade

Jayashree Chepure

Swarupa Phulari

in partial completion of term work for the third year in Instrumentation & Control Engineering

In the academic year 2022-23 as prescribed by Savitribai Phule Pune University. This B-TECH Project-Seminar is record of her own carried out under our supervision and guidance.

Prof. Sheetal katwe Guide

Dr. Mrs. Anagha Panditrao HOD, Instrumental & Control

Dr. Mrs. Madhuri Khambete Director

Abstract

Project Title: SOIL NUTRIENTS ANALYSIS.

The project aimed to develop a method for estimating the NPK (Nitrogen, Phosphorus, and Potassium) percentages in soil using the TCS34725 color sensor and an RGB LED. The TCS34725 color sensor was utilized to measure the NPK values of the soil sample.

The experiment involved illuminating a soil sample with the RGB LED and capturing the reflected light using the TCS34725 color sensor. The RGB values obtained from the sensor were used to calculate the NPK percentages based on a proportional relationship. The calibration factors were applied to adjust the values and account for any variations.

The developed system provided real-time feedback by displaying the NPK percentages on the RGB LED. The NPK percentages were derived by converting the RGB values into respective nutrient percentages using the calibration factors. The RGB LED represented the NPK percentages, with the red LED indicating nitrogen, the green LED indicating phosphorus, and the blue LED indicating potassium.

The experimental results showed a strong correlation between the RGB values and the NPK percentages determined through laboratory soil testing. The system provided a quick and convenient method for estimating the NPK percentages in soil, eliminating the need for time-consuming and expensive laboratory analysis.

The proposed method offers advantages such as cost-effectiveness, portability, and real-time monitoring of soil nutrient levels. However, it should be noted that the accuracy and reliability of the NPK percentage estimation may vary depending on the calibration factors used and the soil composition.

In conclusion, the developed method using the TCS34725 color sensor and RGB LED provides a promising approach for estimating NPK percentages in soil. It offers potential applications in agriculture, allowing farmers and researchers to quickly assess soil fertility and make informed decisions regarding nutrient management strategies.

Keywords: Soil nutrients analysis, NPK percentage, TCS34725 color sensor, RGB LED, Calibration factors, Real-time monitoring.

WÍ.





रिक्षा मंत्रालय MINISTRY OF EDUCATION



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MKSSS's CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE

for successfully completing the Virtual Internship Program in Cybersecurity

Marcella O' Shea Regional Manager APJC, Corporate Affairs, Cisco

Program Partners



-**7**





Student ID- STU645dfbd284cbf1683880914





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JANHAVI KAUSTUBH PENDHARKAR

MKSSS's CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE

for successfully completing the Virtual Internship Program in Cybersecurity

Marcella O' Shea Regional Manager APJC, Corporate Affairs, Cisco

EF EdGreate

Program Partners







Student ID- STU646621332932f1684414771





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-**7**





EF EdCreate

Student ID- STU646656dc137061684428508





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MKSSS's CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE

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Marcella O' Shea Regional Manager APJC. Corporate Affairs, Cisco

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EF EdGreate CTACADEMY





AMRIT

Student ID- STU646234ee3eada1684157678



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Cisco Networking Academy grants this recognition to Ishita Nitin Patil

MKSSS's CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE

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EF Foundation



Student ID- STU645e5a62254c41683905122





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Marcella O' Shea Regional Manager APJC, Corporate Affairs, Cisco

Program Partners



EF Foundation



Student ID- STU645e2f9c6bb371683894172

AMRIT





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Enabling skillsets of the future

Cisco Networking Academy grants this recognition to Vaishnavi Vijay Dudhani

MKSSS's CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE

for successfully completing the Virtual Internship Program in Cybersecurity

Marcella O' Shea Regional Manager APJC, Corporate Affairs, Cisco

Program Partners



-





EF EdCreate

Student ID- STU646235efab95f1684157935



Cisco Networking Academy grants this recognition to Aboli Anil Giri

MKSSS's CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE

for successfully completing the Virtual Internship Program in Cybersecurity

Marcella O' Shea Regional Manager APJC, Corporate Affairs, Cisco

Program Partners







EF Foundation

Student ID- STU645e7f63c52791683914595





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Cisco Networking Academy grants this recognition to Vaishnavi Rajendra Morge

MKSSS's CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE

for successfully completing the Virtual Internship Program in Cybersecurity

Marcella O' Shea Regional Manager APJC, Corporate Affairs, Cisco

Program Partners



- 7 - - - - -





Student ID- STU645e6136ac5b11683906870





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Cisco Networking Academy grants this recognition to siddhi vijay Dhamdhere

MKSSS's CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE

for successfully completing the Virtual Internship Program in Cybersecurity

Marcella O' Shea Regional Manager APJC, Corporate Affairs, Cisco

Program Partners







EF EdCreate

Student ID- STU645fb552e5ab11683993938

Reference: Edgelytics Solutions Pvt. Ltd./HRD/2023/AUG/01



TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Sakshi Sachin Kulkarni a 2rd year Engineering student from Instrumentation Department of MKSSS Cummins College of Engineering for Women has completed summer internship at our company for the period 15 June 2023 to 30 Jul 2023.

Sakshi learnt Arduino programming and applied her knowledge and built firmware as a part of our new product development. She is enthusiastic, quick learner, and methodical in her approach. We would like her to keep the association with us for her upcoming internships.

With Best wishes,

Sincerely,

Rajendra Sapre,

Director, Edgelytics Solutions Pvt. Ltd.

> A201, Nakshatra Apts, S.No 14, Erandwane, Pune 411004. Maharashtra. INDIA info@edgelytics.in | <u>www.edgelytics.in</u> |Contact No: +91 76662 79054 GSTIN: 27AAECE6937H1ZE



Date: 24-Aug-2023

TO WHOMSOVER IT MAY CONCERN

This is to certify that Amolee Haldankar has successfully completed her internship project with Cummins India Limited from period 06-Jun-2023 to 28-Jul-2023.

Project Title - Automotive applications E&E Architecture and Vehicle Performance feature awareness.

Guide Name - Sanjaya K Behera

Her performance exceeded guide's expectation during this period.

We wish her the best for all her future endeavors.

For Cummins India Limited

Rupali

Digitally signed by Rupali Agashe Agashe Date: 2023.08.24 09:40:56 +05'30'

Rupali Agashe HR Lead EBU Custodial Functions

Cummins Technical Centre India Division of Cummins Technologies India Private Limited Survey No. 31(pt), 32(pt), 33(pt), Dahanukar Colony, Kothrud, Pune 411038, Maharashtra, India Phone number +91 020 2538 5435 / 2538 0240 Cumminsindia.com ctipl@cummins.com

Register Office Cummins Technologies India Private Limited, Cummins India Office Campus Towe A,2nd, 4th & 8th Floor, Survey No. 21, Balewadi, Pune 411045, Maharastra, India CIN:U29113PN1994FTC139153





Inspiring and empowering future professionals

Gayatri Kulkarni Data Analytics Consulting Virtual Internship

Certificate of Completion August 13th, 2023

Over the period of August 2023, Gayatri Kulkarni has completed practical tasks in:

Data Quality Assessment Data Insights Data Insights and Presentation



Deborah Yates National Managing Partner People Performance and Culture



Tom Brunskill CEO, Co-Founder of Forage





रिक्षा मंत्रालय MINISTRY OF EDUCATION



Cisco AICTE Virtual Internship Program 2023

Enabling skillsets of the future

Cisco Networking Academy grants this recognition to siddhi vijay Dhamdhere

MKSSS's CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE

for successfully completing the Virtual Internship Program in Cybersecurity

Marcella O' Shea Regional Manager APJC, Corporate Affairs, Cisco

Program Partners







EF EdCreate

Student ID- STU645fb552e5ab11683993938

RamRatan, Piot No. 70, Navketan Hsg. Soc, Nr. Ideal Colony, Kothrud, Pune 411 038. www.micromation.in E - Mail : micromationsystemspune@gmail.com



Date: 01/08/2023

To whomsoever it may concern

This is to certify that Ms. Janhavi Pendharkar has successfully completed her internship with Micromation Systems, from 04 July 2023 to 28 July 2023.

During the internship period she has gained good knowledge about microcontrollers, motors as well as motor drivers. Her grasp for the new information is appreciable.

We wish her all the best for her upcoming career.

For Micromation Systems,

Yogesh Walimbe. Partner.



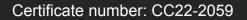
Certificate of Completion

This is to certify that **Radhika Patwe** has successfully completed the 3 month Artificial Intelligence course on 30 July 2023.

Mishan Bhanga

Nishan Bhanga

Course Instructor





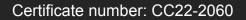
Certificate of Completion

This is to certify that **Nikita** has successfully completed the 3 month Artificial Intelligence course on 30 July 2023.

Mishan Bhanga

Nishan Bhanga

Course Instructor







TO WHOMSOEVER IT MAY CONCERN

This is to certify that Madhura Bartakke has successfully completed her internship in the Structural systems domain with AeroDome Technologies Pvt Ltd.

She was part of the AeroDome internship program from June 1, 2023, to July 31, 2023. During this period, she has demonstrated dedication and hard work to meet the quality and commitment towards the internship.

We wish her all success!

For AeroDome Technologies Private Limited

Vibhor Jain

Registered Office: JAGDISH CHAND GARG, STATI KAWAI, BARAN MAWASA, BARAN-325219, RAJASTHAN



TO WHOMSOEVER IT MAY CONCERN

This is to certify that Aayushi Jagtap has successfully completed her internship in the Structural systems domain with AeroDome Technologies Pvt Ltd.

She was part of the AeroDome internship program from June 1, 2023, to July 31, 2023. During this period, she has demonstrated dedication and hard work to meet the quality and commitment towards the internship.

We wish her all success!

For AeroDome Technologies Private Limited

6400

Vibhor Jain





International Accreditation Institution

Accredited by Aeronautical Sector Skill Council (ASSC) | IAI & ISO 9001 2015, UASL Certified Organization | Training Provider & Partner - Center for Aerospace Research Council | Ministry of MSME Aerospace R&D Center | NSIC | In-house R&D Unit - Aeronautical Sector Skill Council (ASSC) | Government of Kerala Aerospace Trade Organization

Date: 10/01/2023

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Ms. ADITI MILIND SANT of MKSSS's Cummins College of Engineering for Women has successfully completed her Aerospace Design Training for duration of twenty days from 22/12/2022 to 10/01/2023 at Jet Aerospace Aviation Research Centre (UAV/Nanosatellite Research Division), Palakkad, Kerala. During this period her conduct was GOOD.

We appreciate the participation and wish her all success in future for her active participation. During this Internship she had been working under the guidance of

Dr.Balakannan Jayachandran. Managing Director - Jet Aerospace. Technical Director - Aeronautical Sector Skill Council, (ASSC) India.

International Ref No: IAC-JAARC-2022/23-242 This is Internationally Accredited Certificate *



Issued By Jet Aerospace Aviation Research Center (UAV/Nano Satellite Research Division)



Chairman | Board of Director | HR





+91-8883276477 +91-9809812378



Nera KTC, Kanjikode Industrial Area Palakkad-678 623, Kerala, India.



www.jetaero.in info.jetaerospace@gmail.com MKSSS Cummins College of Engineering for Women,

Pune



CERTIFICATE

This is to certify that Ms. Samruddhi Ambavale, Ms. Yashaswi Gadekar, Ms. Aditi Khaire and Ms. Neha Kolhe has successfully completed the Project entitled "Find Stability of Solar panels using Tracking systems" under our supervision dated from September 2022 to June 2023 during the academic year 2022-2023 in the partial fulfillment of Bachelor of Technology degree in Mechanical Engineering – Savitribai Phule Pune University. The work done by them is commendable and shall be pursued further for development.

Date: 26/05/2023

Place: Pune

Dr. Gautam Chandekar

Internal Guide Dr. Gautam C

Head of the Department

Dr. Ajit Bhosale

Internal Examiner

Dr. Madhuri Khambete

Principal

ham aminer

MKSSS's Cummins College of Engineering for Women, B.Tech. (Mechanical)

Scanned with CamScanner

MKSSS's Cummins College of Engineering for Women

Pune



CERTIFICATE

This is to certify that Ms. Radharani Gadgil, Ms. Shireen Inamdar and Ms. Tejal Parhad have successfully completed the project entitled "Work saver design, manufacturing and installation for special hydraulic cylinder assembly and manifold assembly" under my supervision, in partial fulfillment of Bachelor of Technology- Mechanical Engineering of Savitribai Phule University, Pune.

Place: Pune

Date: 26 May 2023

MIC

Dr. Ajit Bhosale Guide Department of Mechanical Engineering

Dr. Gautam Chandekar Head of Department Department of Mechanical Engineering

Prof Amit Rujurkur. Internal Examiner

Dr. Madhuri Khambete Principal

Shr 443 External Caminer

MKSSS's Cummins College of Engineering for Women, B.Tech (Mechanical)

ij.

MKSSS's Cummins College of Engineering for

Women



CERTIFICATE

This is to certify that Miss. Pranjal Patil, Miss. Anuja Patil, Miss. Vaishnavi Gavhane have successfully completed the Project entitled "Design of seed dropping mechanism for Agriculture Drone" under my supervision, in the partial fulfilment of Bachelor of Technology -Mechanical Engineering of Savitribai Phule Pune University.

Date:

Place:

Guide

Dr. Gauter nandekar

Internal Examiner

Dr. Madhuri Khambete

Head of the Department

Martham External Examine

Scanned with CamScanner

MKSSS Cummins College of Engineering for Women,

Pune



CERTIFICATE

This is to certify that Ms. Rugveda Nalawade, Ms. Saumya Nalawade and Ms. Anusha Patil, has successfully completed the Project entitled "Analysis of Two-Wheeler Fluidic Seat for Vibrational Damping" under our supervision dated from September 2022 to June 2023 during the academic year 2022-2023 in the partial fulfillment of Bachelor of Technology degree in Mechanical Engineering – Savitribai Phule Pune University.

Date: 26-05-2023

Place: Pune

Prof. Ajit Bhosale Internal Guide

Gautam Chandekar Head of the Department

Prof. Amit Rajurkar Internal Examiner

Dr. Madhuri Khambete Principal

Martham External Examiner

MKSSS's Cummins College of Engineering for Women, B.Tech. (Mechanical)

MKSSS's Cummins College of Engineering for Women, Pune



CERTIFICATE

This is to certify that Ms. Prajakta Joshi, Ms. Sharvari Kulkarni, Ms. Rohini Sangle and Ms. Shreya Vijith, have successfully completed the Project entitled "Design & Development of Gripper and Setup of Selective Spraying for Precision Agriculture" under our supervision dated from August 2022 to June 2023 during the academic year 2022-2023 in the partial fulfilment of Bachelor of Technology degree in Mechanical Engineering – Savitribai Phule Pune University. The work done by them is commendable and shall be pursued further for development.

Date: 26/05/2023

Place: Punc

Relhave 2.

Prof. Nilesh Kolhalkar Internal Guide

Dr. Gautam Chandekar

Head of the Department

Dr. Shridhar Kedar Internal Examiner

Dr. Madhuri Khambete Principal

External Examiner

MKSSS Cummins College of Engineering for Women, Pune



CERTIFICATE

This is to certify that Ms. Sanskruti Gaikwad, Ms. Pratiksha Nawale, Ms. Akshata Vaditake, Ms. Dnyaneshwari Wakchaure, has successfully completed the Project entitled "Design & Prototype of Constant Spring Support Effort" under our supervision dated from September 2022 to June 2023 during the academic year 2022-2023 in the partial fulfilment of Bachelor of Technology degree in Mechanical Engineering – Savitribai Phule Pune University. The work done by them is commendable and shall be pursued further for development.

Date: 26 05 2023

Place: Pune.

Prof. Mandar Vahadane Guide

Dr.Gautam Chandekar Head Of Department

Rihall

Prof. Nilesh Kolhalkar Internal Examiner

Dr. Madhuri Khambete Principal

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MKSSS's Cummins College of Engineering for Women,

Pune



CERTIFICATE

This is to certify that Ms. Isha Anand Ekbote, Ms. Siddhi Ajay Khambe and Ms. Karishma Sanjay Surwade has successfully completed the Project entitled "Experimental investigation and statistical analysis of FDM 3D printed PLA-based composites" under our supervision dated from September 2022 to June 2023 during the academic year 2022-2023 in the partial fulfilment of Bachelor of Technology degree in Mechanical Engineering – Savitribai Phule Pune University. The work done by them is commendable and shall be pursued further for development.

Date: 26 5 23

Place: PUNE

inde

Prof. Yashwant Munde Internal Guide

Dr Gautam Chandekar Head of the Department

Internal Examiner

Pouf. A.S. shinde

Dr. Madhuri Khambete Principal

MKSSS's Cummins College of Engineering for Women, B.Tech. (Mechanical)

ii

MKSSS Cummins College of Engineering for Women, Pune



CERTIFICATE

This is to certify that Ms. Shruti Chaudhari, Ms. Chaitrali Kelkar, Ms. Anushri Gujarathi, Ms. Sharvari Kadam, has successfully completed the Project entitled "Design and Development of vibration fixture for automotive products" under our supervision dated from September 2022 to May 2023 during the academic year 2022-2023 in the partial fulfillment of Bachelor of Technology degree in Mechanical Engineering – Savitribai Phule Pune University. The work done by them is commendable and shall be pursued further for development.

Date: 26 May 2023

Place: Pune

Prof. Vishwanath Mali

Internal Guide

14thalk PrA. N. R. K. halk-1

Internal Examiner

Dr. Madhuri Khambete

Principal

Dr. Gadtam Chandekar

Head of the Department

External Examiner

MKSSS'S Cummins College of Engineering for Women, Pune, B. Tech. (Mechanical)

MKSSS's Cummins College of Engineering For Women, Pune

CERTIFICATE

This is to certify that Ms. Gayatri Kulkarni, Ms. Sonali Kshirsagar, Ms. Shradha Shinde, Ms. Anisha Desai has successfully completed the project entitled " DEVELOPMENT OF SOLAR POWERED REFRIGERATOR WITHOUT BATTERY BACKUP " under my supervision, in partial fulfilment of Bachelor's of Technology in Mechanical Engineering of Savitribai Phule Pune University.

Place: Pune

Date:

Dr. Shridhar Kedar Project Guide

Prof. V.A. Mali Internal Guide

Dr. Gautam Chandakar Head of Department

Dr. Madhuri Khambete Principal

Examiner mai

MKSSS'S Cummins College Of Engineering For Women, Pune, B-Tech (Mech)

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MKSSS Cummins College of Engineering for Women,

Pune



CERTIFICATE

This is to certify that Ms. Simran Khanna, Ms. Snigdha Patil, Ms. Anika Pradhan and Ms. Arpita Sathaye has successfully completed the Projectentitled "Effective use of bull power to generate electricity" under our supervision dated from September 2022 to June 2023 during the academic year 2022-2023 in the partial fulfillment of Bachelor of Technology degree in Mechanical Engineering – Savitribai Phule Pune University. The work done by them is commendable and shall be pursued further for development.

Date: 26/05/2023

Place: Pune

Dr. Gautam S.

Internal Guide

Dr. Gautam S. Chandekar

Head of the Department

Prof. Nitin Patil

Internal Examiner Principal

External-Examiner

hair

MKSSS's Cummins College of Engineering for Women, Pune



CERTIFICATE

This is to certify that Ms. Mrudul Chaudhari, Ms. Rashi Gulhane, Ms. Asra Fatima Husain, Ms. Sakshi Koshe has successfully completed the Project en titled "Solar Ice Maker" under our supervision, in the partial fulfillment of Bachelor of Technology degree - Mechanical Engineering of Savitribai Phule Pune University.

Date: 26-5-23 Place: Pune

Prof. Anagha Sahasrabudhe Guide

Dr. Gautam Chandekar Head of the Department

Prof. Ajit Bhosale Internal Examiner

Dr. Madhuri Khambete r Principal

ukhan Externa xaminer

MKSSS Cummins College of Engineering for Women, Pune



CERTIFICATE

This is to certify that Ms. Mansi Raverkar, Ms. Rucha Sangale, Ms. Bhagyashri Swami, Ms. Madhura Raverkar, has successfully completed the Project entitled "Design and Maufacturing of PEM Hydrogen Fuel Cell" under my supervision dated from September 2022 to June 2023 during the academic year 2022-2023 in the partial fulfillment of Bachelor of Technology degree in Mechanical Engineering – Savitribai Phule Pune University. The work done by them is commendable and shall be pursued further for development.

Date: 26/5/23

Place: PUNC

Dr. Deepak Watvisave

Internal Guide

Dr. Gautam Chandekar

Head of the Department

Internal Examiner

Dr. Madhuri Khambete

Principal

MKSSS's Cummins College of Engineering for Women, B.Tech. (Mechanical)

MKSSS's Cummins College of Engineering for Women,

Pune-411052



CERTIFICATE

This is to certify that Ms. Neha Kulkarni, Ms. Pragalbha Kurane, Ms. Anvi Shah, Ms. Janvi Shinde, has successfully completed the Project entitled "Design and development of Assembly Line for Laser Welding of Li-ion cylindrical cell module" under our supervision dated from September 2022 to June 2023 during the academic year 2022-2023 in the partial fulfillment of Bachelor of Technology degree in Mechanical Engineering – Savitribai Phule Pune University. The work done by them is commendable and shall be pursued further for development.

Date: 26 05 23

Place: Pune

Rothalk2.

Prof. Nilesh Kolhalkar

Internal Guide

Dr. Gautam Chandekar

Head of the Department

Dr. Deepak Watvisave

Internal Examiner

Dr. Madhuri Khambete

Principal

Externa

MKSSS's Cummins College of Engineering for Women, B.Tech. (Mechanical)

MKSSS's Cummins College of Engineering for Women, Pune



CERTIFICATE

This is to certify that Miss.Poojal Bhoi, Miss.Madhura Kumbhar Miss.Nutan Lagad has successfully completed the Project entitled "Development of Autoladler Mechanism in Automated Handling System" under our supervision dated from September 2022 to May 2023 during the academic year 2022-2023 in the fulfilment of Bachelor of Technology degree in Mechanical Engineering – Savitribai Phule Pune University. The work done by them is commendable and shall be pursued further for development.

Date: 26 05 2023

Place: PUNE

Prof. Prafulla Pawar

Guide

Prof. Gautam Chandekar

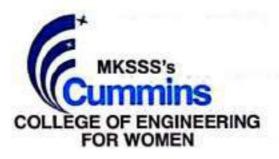
Head of the Department

External Examiner

Prof. Rujuta Agavekar Internal Examiner

Dr. Madhuri Khambete

Principal



CERTIFICATE

This is to certify that Ms. Khushboo Agarwal (C22019551701), Ms. Shrutika Bhagwat(C22019551703), Ms. Apurva Bodakhe(C22019551705), Ms. Harshada Dhumal(C22019551713), has successfully completed the Project entitled "Development and Characterization of Biochar and PLA Composites for 3D Printing: Mechanical Properties Assessment" under our supervision dated from August 2022 to May 2023 during the academic year 2022-2023 in the partial fulfillment of Bachelor of Technology degree in Mechanical Engineering – Savitribai Phule Pune University. The work done by them is commendable and shall be pursued further for development.

Date: 26/05/2023.

Place: Pune.

Dr. Avinash S. Shinde Internal Guide

Dr. Gautan Chandekar

Head of Department

Internal Examiner

Dr. Madhuri Khambete Principal

Examiner

Scanned with CamScanner

MKSSS Cummins College of Engineering for Women, Pune



CERTIFICATE

This is to certify that Ms Saakshi Cholkar, Ms Swarali Ghadge, Ms Shivani Pandit and Ms Anuja Sardesai, has successfully completed the Project entitled "Design and Prototyping of a High-Shear Mixer for Multi-Vitamin Constitution in Colloidal Liquids" under our supervision dated from August 2022 to May 2023 during the academic year 2022-2023 in the fulfillment of Bachelor of Technology degree in Mechanical Engineering – Savitribai Phule Pune University. The work done by them is commendable and shall be pursued further for development.

Date: 26 05 2023

Place: Puv

Prof. Rujuta Agavekar

Internal Guide

Dr. Gautam Chandeka

Head of the Department

Examiner

Dr. Madhuri Khambete

Principal

External Examiner

MKSSS's Cummins College of Engineering for Women, Pune, B. Tech Mechanical 2

MKSSS's CUMMINS COLLEGE OF ENGINEERING FOR WOMEN



CERTIFICATE

This is to certify that Ms. Srushti Deore, Ms. Ritavi Gaikwad, and Ms. Rutuja Deshpande, have successfully completed the project entitled" Investigation of adhesive bond failures for different manufacturing methods" under my supervision, in partial fulfillment of Bachelor of Technology-Mechanical Engineering of Savitribai Phule University.

Place : Pune

 ~ 10

Date: 26/05/2023

Dr. Anand Bewoor Guide Department of Mechanical Engineering

Dr.Gautam Chandekar Head of Department

External Examiner

Dr.Madhuri Khambete Principal

ł

MKSSS's Cummins College of Engineering for Women, Btech (Mechanical)



CERTIFICATE

This is to certify that Ms. Adishri Desai, Ms. Sakshi Joshi, Ms. Reva Kasliwal, and Ms. Pradnya Sonwalkar have successfully completed the project entitled "Design of Zone Ducting to Attenuate Turbulence and Deliver Near Laminar Flow in a Localized Region" under our supervision dated from September 2022 to May 2023 during the academic year 2022-2023 in partial fulfillment of the Bachelor of Technology degree in Mechanical Engineering at Savitribai Phule Pune University. The work done by them is commendable and should be pursued further for development.

Date: 26 5 23

Place: pune

Prof. Nitin Patil

Internal Guide

Gautam Chandekar

Head of the Department

Internal Examiner

Dr. Madhuri Khambete

Principal

External Examiner

MKSSS's Cummins College of Engineering for Women, B.Tech. (Mechanical)

TROOMATE - FIND YOUR PERFECT ROOMMATE

CERTIFICATE



This is to certify that the project/dissertation report entitled "Troomate - Find Your Perfect Roommate" submitted by

1. Arushi Dubey	
2. Aditi Bornare	
3. Srushti Chiddarwar	
4. Rutuja Dherange	

is a record of bonafide work carried out by them, under my guidance, in fulfillment of the requirements for the award of the degree of Bachelor of Technology (B.Tech.) in Information Technology Engineering of MKSSS's Cummins College of Engineering for Women, Pune, affiliated to Savitribai Phule Pune University.

Prajakta Deshpande Internal Guide Department of Information Technology Department of Information Technology

C22019441608 C22019441613 C22019441615 C22019441620

Dr. Anagha Kulkami Head of Department

MKK

Dr. Madhuri B. Khambete

Principal MKSSS's Cummins College of Engineering for Women, Pune - 411052

Date 26-05-2022

RETINAL DINEASE CLASSIFIC STRUCTS

CERTIFICATE

This is to certify that the project report estimated

RETINAL DISEASE CLASSIFICATION SYSTEM

Submitted by

Valibbavi Vijay Ambarkar: C22019441666 Siddhi Ratanlal Bhotada: C22019441609 Mitali Mahendra Deshgande: C22019441619 Diksha Ghanashyati Sharma: C22019441663

is a bonafide work carried out by them under the supervision of Prof. Radhika Bhagwat and it is approved for the partial fulfillment of the requirement of Savitnihai Phale Pane University for the award of the Degree of Bachelor of Engineering (Information Technology) This project report has not been earlier submitted to any other Institute or University for the award of any degree or diploma.

Hogun

Prof. Radhika Bhagwat Internal Guide Department of Information Technology

Dr. Anagha Kulkarni Head of Department Department of Information Technology

Might

Principal MKSSS's Cummins College of Engineering for Women, Purst

Place:



This is to certify that the project report entitled "Object Storage Based Distributed Erasure Coded Engine" submitted by

1. Sakshi Kamble (C22019441636)

2. Kareena Ganshani (C22019441637)

- 3. Srushti Nikatn (C22019441652)
- 4. Priya Meher (C2019441658)

is a record of bonafide work carried out by them, under my guidance, in fulfilment of the requirements for the award of the degree of Bachelor of Technology (B.Tech.) in Information Technology Engineering of MKSSS's Cummins College of Engineering for Women, Pune, affiliated to Savitribai Phule Pune University.

Dr. Anarha Kulkarni

Guide Head of Department Department of Information Technology

Dr. Madhuri B. Khamhete

Principal MKSSS's Cummins College of Engineering for Women, Pune-411052

Date: 26-May-2023



This is to certify that the project/dissertation report entitled "Employee and Contractor Management System" submitted by

1. Abhilasha Gupta (C22019441603)

- 2. Arya Deshpande (C22019441617)
- 3. Namira Faras (C22020442602)
- 4. Vaishnavi Kolhe (C22020442608)

is a record of bonafide work carried out by them, under my guidance, in fulfillment of the requirements for the award of the degree of Bachelor of Technology (B.Tech.) in Information Technology Engineering of MKSSS's Cummins College of Engineering for Women, Pune, affiliated to Savitribai Phule Pune University.

flogurat

Fraf. Radhika Bhagwat Guide Department of Information Technology

Dr. Anagha Kutkarni Head of the Department Department of Information Technology

Dr. Madhuri B. Khambete Principal MKSSS's Cummins College of Engineering for Woman, Pune - 411052

DEPTH ENTIMATION FOR UNMANNED AERIAL VEHICLE (UAV) LABELENG USENG DEPT LEARNING

CERTIFICATE

This is to certify that the project report entitled

DEPTH ESTIMATION FOR UAV LANDING USING DEEP LEARNING

Submitted by

Pranita Birajdar	C22019441612
Bhakti Mhaske	C22019441644
Megha Mule	C22019441646
Payal Nikam	C22019441651

is a bonafide work carried out by them under the supervision of Prof. Dr. Dipti patil and it is approved for the partial fulfillment of the requirement of Savitrihai Phale Pane University for the award of the Degree of Bachelor of Engineering(Information Technology)

This project report has not been earlier submitted to any other institute or University for the award of any degree or diploma.

(Dr.Dipti Patil) Internal Guide Department of Information Technology (Dr.Anaglia Kulkarm) Head. Department of Information Technology

Mohm

(Dr.M.B.Khambete) Principal, Cummins College of Engineering for Woman.

Date: Place: Pane

> Mkess's Cummins College of Engineering For Women - INFORMATION TECHNOLOGY -2022-23

CERTIFICATE



This is to certify that the project/dissertation report coulded to "Graphology based prediction of Stress, Anxiety and Depression" submitted by

- 1. Pradaya Agrawal (C22019441605)
- 2. Jeesha Deshmakh (C22019441616)
- 3. Aboli Khursale (C22019441640)
- 4. Neha Lahane (C22019441642)

is a record of bonafide work carried out by them, under my guidance, in fulfiliment of the requirements for the award of the degree of Bachelor of Technology (B.Tech) in Information Technology Engineering of MKSSS's Cummins College of Engineering for Women. Pane affiliated to Savitribai Phale Pune University.

Prof. Harsha Sonune Internal Guide Department of Information Technology

Dr. Anagha Kulkarni Head of Department Department of Information Technology

Dr. Madhuri B. Khambute

Principal.

MKSSS's Cummuns College of Engineering for Women, Punc - 411052



This is to certify that the project/desertation report entitled "Self Soversign Identity Using Blockchala" submitted by

- Chutali Chuidhari (C22020442601) 1.
- Gayatri Bharambe (C22020442603) 2.
- Sayali Haridas (C22020442605) α.

Shratha Kamavat (C22020442607) is a record of bonafide work carried out by 41 them, under my guidance, in fulfillment of the requirements for the award of the degree of Bachelor of Technology (II.Tech.) in Information Technology Engineering of MKSSS's Cummins College of Engineering for Women, Pane, affiliated to Savarihai Phale Pone University.

Prof. Sochitra Morwadkar Internal Guide Department of Information Technology Engineering Department of Information Technology Engineering

Dr. Anagha Kulkarui Head of Department

1418 Kentre

Dr. Madhuri H. Khambete Principal MCSSS's Common College of Engineering for Women, Pane 411052



This is to certify that the project/dissertation report estitled "A College Metaverse Ecosystem" submitted by

- 1. Isha Deshpande (C22019441618)
- 2. Rutuja Sangitrao (C22019441661)
- 3. Manusi Giri (C22019441625)
- 4. Samruddhi Kluarde (C22019442602)

is a record of bonafide work carried out by them, under my guidance, in fulfillment of the requirements for the award of the degree of Bachelor of Technology (B.Tech.) in Information Technology Engineering of MKSSS's Cummins College of Engineering for Women, Pune, affiliated to Savitribai Phule Pune University

Pruf, Leens Panchal

Guide Department of Information Technology

Engineering

Dr. Anagha Kulkarni

Head of Department Department of Information Technology Engineering

Dr. Madhuri B. Khambete Principal MKSSS's Cummins College of Engineering for Women, Pune - 411052



This is to certify that the project/dissertation report entitled "MUSIC GENERATION USING EVOLUTIONARY COMPUTING " submitted by

- 1. PREETI ABNAVE C22019441604
- 2. MAYURI BAJBALKAR C22019441609
- 3. SAISHWARI GURAV C22019441629
- AKANKSHA SATPUTE C22019441662

is a record of bonafide work carried out by them, under my guidance, in fulfillment of the requirements for the award of the degree of Bachelor of Technology (B.Tech.) in Information Technology Engineering of MKSSS's Cummins College of Engineering for Women, Pune, affiliated to Savitribai Phule Pune University.

Dr. Makarand Velankar Internal Guide Department of Information Technology

Dr. Anagha Kulkarni Head of Department Department of Information Technology

Dr. Madhuri B. Khambete Principal MKSSS's Cummins College of Engineering for Women, Pune - 411052



This is to certify that the project/dissertation report entitled "ARtVista: Elevating Aga Khun Palace Visit" submitted by

- 1. Vaishvi Raina (C22019441601)
- Tejal Bhagwatikar (C22019441610)
- Saloni Garg (C22019441659)
- Swati Akanksha (C22019441665)

is a record of bonafide work carried out by them, under my guidance, in fulfilment of the requirements for the award of the degree of Bashelor of Technology (B.Tech.) in Information Technology Engineering of MKSSS's Cummins College of Engineering for Women, Pune, affiliated to Savitribai Phule Pune University.

Prof. Prajakta Deshpande Internal Guide Department of Information Technology Engineering

Dr. Anagha Kalkarni Head of Department Department of Information Technology Engineering

. B. Mitambete

Principal MKSSS's Cummins College of Engineering for Women, Pane - 411052



This is to certify that the project/dissertation report entitled " Implementation of Innovative Yoga Based Approach to Support Yoga Teachers" submitted by

- 1. Sneha Kokane (C22019441641)
- 2. Shrutika Sangade (C22019441660)
- 3. Neha Tonpe(C22019441667
- 4. Hirsdavi Kasalkar(C22020442606)

is a record of bonafide work carried out by them, under my guidance, in fulfilment of the requirements for the award of the degree of Bachelor of Technology (B.Tech.) in Information Technology Engineering of MK5SS's Cummins College of Engineering for Women, Pune, affiliated to Savitribai Phule Pune University.

Dr. Snehh Thombre

Internal Guide Department of Information Technology Engineering

Dr. Anagha Kulkarni

Head of Department Department of Information Technology Engineering

Dr. Madhuri B. Khambete

Principal MKSSS's Curumins College of Engineering for Women, Pune - 411052



This is to certify that the project/dissertation report entitled "Training and Placement Cell Portal" submitted by

- 1. Sakahi Domale (C22019441621)
- 2 Neha Khartude (C22019441638)
- 3. Saloni Mali (C220193441643)
- 4 Shilpa Jagtap (C22019441634)

is a record of bonafide work carried out by them, under my guidance, in fulfilment of the requirements for the award of the degree of Bachelor of Technology (B.Tech.) in Information Technology Engineering of MKSSS's Cammins College of Engineering for Women, Pane, affiliated to Savitribui Phule Pane University.

H)D

Dr. Harsahd Wadkar Internal Guide Department of Information Technology Engineering Dr. Anagha Kafkarni Head of Department Department of Information Technology Engineering

Dr. Mathari B. Khumhete

Principal MKSSS's Commins College of Engineering for Women, Pung - 411052

Dute: 25-05-2023



This is to certify that the project/dissertation report entitled "Disaster Preparedness using Virtual Reality: Fire Disasters" submitted by

- 1. Disha Wani (C22019111268)
- 2. Aishwarya Narwadkar (C22019441650)
- 3. Simran Chandak (C22019441614)
- 4. Hemansi Pandya (C22019441656)

is a record of bonafide work carried out by them, under my guidance, in fulfillment of the requirements for the award of the degree of Bachelor of Technology (B.Tech.) in Information Technology Engineering of MKSSS's Cummins College of Engineering for Women, Pune, affiliated to Savitribal Phule Pune University.

Dr. Sneha Thombre Internal Guide Department of Information Technology Engineering

Dr. Anagha Kulkarni Head Of Department Department of Information Technology Engineering

Dr. Madhuri B. Khambete Principal MKSSS's Cummins College of Engineering for Women, Pune - 411052

Date: 26/05/23

CERTIFICATE



This is to certify that the project/dissortanion report emitted "Question Generation from Images using Deep Learning" submitted by

- 1. Gouri Ghurka (C22019441626)
- 2 Hunanshi Methwani (C22019441631)
- 3. Ruchita Herlekar (C22019441630)
- 4. Muskan Singhal (C22019441647)

in a record of bonafide work carried out by them, under my guidance, in faitfillment of the requirements for the award of the degree of Bachelier of Technology (B.Tech.) in Information Technology Engineering of MKSSS's Cummins College of Engineering for Women, Pane, affiliated to Savaribai Phule Pune University.

> Dr. Anagha Kulkarni Guide (Inal of Department) Department of Information Technology

Dr. Madhieri B. Khambere

pancinal.

MKSSS's Commins College of Engineering for Women, Pane - 411052



This is to certify that the project/dissertation report entitled "Decentralized Ride Sharing System" submitted by

- 1. Meghana Mohanty (C22019441645)
- 2. Maitreyee Narkhede (C22019441649)
- 3. Shruti Tanpure (C22019441666) 4. Vidisha Pandey
- (C22019441669)

is a record of bonafide work carried out by them, under my guidance, in fulfillment of the requirements for the award of the degree of Bachelor of Technology (B.Tech.) in Information Technology Engineering of MKSSS's Cummins College of Engineering for Women, Pune, affiliated to Savitribai Phule Pune University.

Ms. Madhura Tokekar Guide Assistant Professor Department of Information Technology

Anaghakulkar

Dr. Anagha Kulkarni HOD Department of Information Technology

Dr. Madhuri B. Khambete Principal MKSSS's Cummins College of Engineering for Women, Pune - 411052

Date: 30-04-2023



This is to certify that the project/dissertation report entitled "MUSICOLOGY: GENERATING MUSIC USING AI/ML " submitted by

- 1. SAYLI PATIL C22018441653
- 2. TANVI KOUL C22019441602
- 3. SHRUTIKA SHELKE C22019441664
- 4. VAISHNAVI RANI -C22019441668

is a record of bonafide work carried out by them, under my guidance, in fulfillment of the requirements for the award of the degree of Bachelor of Technology (B.Tech.) in Information Technology Engineering of MKSSS's Cummins College of Engineering for Women, Pune, affiliated to Savitribai Phule Pune University.

Dr. Makarand Velankar

Internal Guide Department of Information Technology

Dr. Anagha Kulkarni Head of Department Department of Information Technology

Dr. Madhuri B. Khambete

Principal MKSSS's Cummins College of Engineering for Women, Pune - 411052 Contextual Object Detection unity Durp Loarning

DEPARTMENT OF INFORMATION TECHNOLOGY MKSSS'S CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE

2022-23

CERTIFICATE

This is to certify that the project report entitled CONTEXTUAL OBJECT DETECTION USING DEEP LEARNING

Submitted by

VINITA CHIMALGI ANUSHKA GULHANE C22019441679 C22019441628

is a bonafide work carried out by them under the supervision of Prof. Dr. Dipti Patil and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University for the award of the Degree of Bachelor of

Engineering (Information Technology) This project report has not been earlier submitted to any other Institute or University for the award of any degree or diploma.

Dr. Dipti Patil Internal Guide Department of Information Technology

External Examiner Date : Bolut

Dr. Anagha Kulkarni Head of Department Department of Information Technology

Dr. Madhuri Khambete Principal MKSSS's Cummins College of Engineering, Pune

Place: Date



This is to certify that the project/desertation report entitled "Build UI Component Toolkit" submitted by

- 1. Siddhi Govindwar (C22019441627)
- 2. Vaishnavi Ingale (C22019441632)
- 3. Rohini Jawraj (C22019441635)
- Anjali Yadav (C22019441671)
- 5 Neha Goyal (C22020442604)

is a record of bonafide work sarried out by them, under my guidance, in fulfillment of the requirements for the award of the degree of Bachelor of Technology (B.Tech.) in Information Technology Engineering of MKSSS's Cummins College of Engineering for Women, Pune, affiliated to Savitribai Phule Pune University.

Ham

Dr. Harshall Wadkar Internal Goide Department of Information Technology Engineering

Dr. Anagha Kulkarni Head of Department Department of Information Technology Engineering

Dr. Madhuri B. Khambete Principal MKSSS's Cummins College of Englishering for Women, Pune - 411032



This is to certify that the project/dissertation report entitled "Implementation of Identity and

Access Management" submitted by

1. Vaishnavi Gadage (C22019441622)

2. Rutuja Ghorpade (C22019441624)

- 3. Rutuja Nikumb (C22019441653)
- 4. Rujuta Palimkar(C22019441654)
- 5. Viithi Phatnani(C22019441657)

is a record of bonafide work carried out by them, under my guidance, in fulfiliment of the requirements for the award of the degree of Bachelor of Technology (B.Tech.) is Information Technology Engineering of MKSSS's Cummins College of Engineering for Women, Pure, affiliated to Savitribai Phule Pune University.

Frof. Suchitra Morwadkar Inemal Guide Department of Information Technology Engineering

Dr. exagina Kofkarni Hend of Department Department of Information Technology Engineering

Dr. Madhari R. Kummert Principsi MK5555's Commins College of Engineering Sor Women, Patter - 411052



This is to certify that the project/dissertation report entitled "Automatic MCQs Generation using natural language Processing" submitted by

1. Aditor Annune (C22019441607)

2. Ratika Pande (C22019441655)

is a record of bonafide work carried out by them, under my guidance, in fulfilment of the requirements for the award of the degree of Bachelor of Technology (B.Tech.) in Information Technology Engineering of MKSSS's Cummins College of Engineering for Women, Pane, affiliated to Savitribai Phule Pune University.

Dr. Dipti Patil Internal Guide Department of Information Technology Engineering Dr. Anagha Kulkarni Head of Department Department of Information Technology Engineering

Dr. Madhurt B. Khambete Principal MKSSS's Cummuns College of Engineering for Women, Pane - 411052

Date: 25/05/2023





To whomsoever it may concern

This is to certify that Neha Balasaheb Bomble of MKSSS's Cummins College of Engineering for Women, Pune was working with Dell Technologies for his/her Internship Project.

Project Details		
Project Name	Tool to manage test data intake	
Duration	7 th June 2021 to 30 th July 2021	
Location	Bangalore	
Reporting Manager Name	Sujatha Idiculla	
Guide Name	Ambika Tirupathi	
Sponsor Name	Steve Brown	

He/ She has successfully completed the project. His/ Her findings in course of the project has been found to be practical and relevant. Some of the recommendations will be incorporated on approval from the business.

His/ Her performance during the tenure of the internship has been found to be satisfactory.

Thanking You,

Regards,

Samuer

Savneet Shergill Senior Director Talent Acquisition Dell Technologies

Dell International Services India Prt. Ltd. Corporate Identification Number 1074999KA1996FTC055568 Registered Office : Divyashree Greens, Sv. Nos. 12/1,12/2A,13/1A, Challaghatta Village, Varthur Hobli, Bangalore-560071,Main: +91-08028077000 Fax:+91-8041520030 Dell.com



WOMEN IN DATA SCIENCE PUNE

Appointment Letter

Date: 22nd September, 2021

To;

Shreva Chourasiya

DEPARTMENT OF INFORMATION TECHNOLOGY,

MK55S's Cummins College of Engineering for Women, Karve Nagar, Pune, Maharashtra 411052

Congratulations! We are pleased to offer you 2 months of part time internship starting 1" June as a "Summer Intern" with WIDS Pane. We welcome you to WIDS Pane and wish you a great learning experience.

Your responsibilities will include ramp up on methods, tools and techniques required to do the job which will be informed to you from time to time. You will be provided periodic and on the job training and induction based on the need by WiDS Purse.

The nature of work will be remote and the team will be virtual, spread across all over india. You will be required to report regularly via telephonic and video conference methods of communication in addition to email and WhatsApp/Telegram communication.

This will be an unpaid internship. Appointment letters & Experience letters will be given only on successful, consistent performance till the end of the Internship period, regularity and sincerity in the approach, the quality & completeness of work and timeliness of deliverables.

Lot of confidential data will be shared to you as a part of internship and you should not disclose it to anyone including friends, family, classmates, teachers, or share it in any medium such as social media, WhatsApp, email, doud. Violating the Terms and Conditions of the appointment letter and confidentiality agreement can lead to termination of internship without prior notice and can have serious legal implications and issues with our partners and collaborators.

Please countersign the copy of this appointment letter as an acceptance of the Terms and Conditions of this Internship.

Thanking you

Ms Sucheta Dhere,

WIDS Pune 2021 Ambasador

for WIDS CONFERENCE PVT LTD.

WDS Pure is license issued by Starford University ICME Department's WDB INitialive

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Reg. Addresa: B23 W/TBR_VA/MQARK. 6TH FLOOR: NEW 100 FEET D F ROAD, NEAR GURU SANESH MAUAR, KOTHRUD: PUNE 411038

WRITED LINE CORD







Ref. no. mitu/2021/08/01

Date: 01/08/2021

TO WHOM IT MAY CONCERN

This is to certify that Ms. Esha Chaugule has completed industry internship under mentorship of our company in Pune office dated from 01/06/2021 to 31/07/2021.

During internship program, she has learned the application oriented Python Programming for Data Science and Machine Learning. She has worked on different areas of software development. She was responsible for assisting our project leader in analyzing the problem statement, understanding and implementation of Python based Machine Learning and Natural Language Processing systems.

Her association with us was very fruitful and we wish her best wishes for future endeavours.

We wish her every success of life.

Rashmi R. Thorave, Managing Director, MITU Research, Pune.



Nashik Office:
12, Guruprasad, Sneh Nagar,
Dindori Road, Nashik - 4.

Pune Office: Second Floor, Ratnatara Complex, Kranti Chowk, Navi Sangvi, Pune – 27. http://mitu.co.in contact@mitu.co.in 9960163010.



This certificate is awarded to

SHRAVANI MILIND CHAVAN

in recognition of his/her excellent performance in

India Connect @NTU Research Internship Programme 2021 (29th May 2021 – 28th July 2021)

for the Project entitled "Sentiment Analysis for Climate Change"

under the supervision of

Associate Professor Erik Cambria

School of Computer Science and Engineering

18th August 2021 Date

Prof Lalit Goel Director India Connect @NTU



To whomsoever it may concern

This is to certify that Bhakti Thakabhau Chindhe of MKSSS's Cummins College of Engineering for Women, Pune was working with Dell Technologies for his/her Internship Project.

Project Details		
Project Name	Transactional Audit Portal	
Duration	7th June 2021 to 30th July 2021	
Location	Hyderabad	
Reporting Manager Name	Sharath Akkinapally	
Guide Name	Cristiane Wasielewsk	
Sponsor Name	Jennifer Erickson	

He/ She has successfully completed the project. His/ Her findings in course of the project has been found to be practical and relevant. Some of the recommendations will be incorporated on approval from the business.

His/ Her performance during the tenure of the internship has been found to be satisfactory.

Thanking You,

Regards,

woner

Savneet Shergill Senior Director Talent Acquisition Dell Technologies

Dell International Services India Pvt. Ltd. Corporate Identification Number :U74999KA1996FTC055568 Registered Office : Divyashree Greens, Sy. Nos. 12/1,12/2A,13/1A, Challaghatta Village, Varthur Hobli, Bangalore-560071,Main: +91-08028077000 Fax:+91-8041520030

Internal Use - Confidential

CERTIFICATE OF COMPLETION

	Internship Program 2021	
Enabling skilltets of the future	· <u>A</u>	
Cisco Net	working Academy grants this r	ecognition to
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MKSSS CU	MMINS College Of Engg.	For Women
for successfully co	mpleting cyber security virtual	internship program
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		- un-
Marcela O' Shea	Prot. Anil D. Sahasrabudhe	Circl Sethi





TO WHOM IT MAY CONCERN

Date 14/08/2021

This is to certify that Mrunal Dandwate, D/O – Mahendra Dandwate a student of Information Technology, Cummins college of Engineering, pune. Has successfully completed 02(Two) months (From 1st June 2021 to 31th July 2021) long intenship programme at HackersEra Cyber Security Consultancy and Training Pvt Ltd.

During these periods of her internship programme with us, we found her hardworking, consistent and inquisitive. She was very much interested in learning the functions of our core division and willing to put her best efforts and get into the depth of the subject to understand it better.

Her association with us was very much faithful and we wish all the best for her future.

Very truly yours,

Vikash chevel







Cyber Security Virtual Internship Program 2021

Enabling skillsets of the future

Cisco Networking Academy grants this recognition to

11

KETAKI RENUKADAS DESHPANDE MKSSS CUMMINS College Of Engg. For Women

for successfully completing cyber security virtual internship program

Marcella O' Shea Regional Manager APJ, Corporate Affairs, Cisco

ADelvins

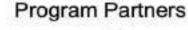
Prof. Anil D. Sahasrabudhe Chairman, AICTE

V.I. Sett

Kirti Sethi Head, NASSCOM FutureSkills

NEAT





ICTACADEMY EduSkills

Student ID-STU607000318fdd81617952817

Internship Certificate







TO WHOM IT MAY CONCERN

Date: 14/08/2021

This is to certify that **Ms.Seema Dhamgunde**, D/O – Mr. Gurulingappa Dhamgunde, a student of Information Technology, Mksss's Cummins college of engineering for women,Pune. Has successfully completed 02 (Two) months (From 1st Jun 2021 to 31st July 2021) long internship programme at **HackersEra Cyber Security Consultancy and Training Pvt Ltd.**

During these periods of her internship programme with us, we found her hardworking, consistent and inquisitive. She was very much interested in learning the functions of our core division and willing to put her best efforts and get into the depth of the subject to understand it better.

Her association with us was very much faithful and we wish all the best for her future.

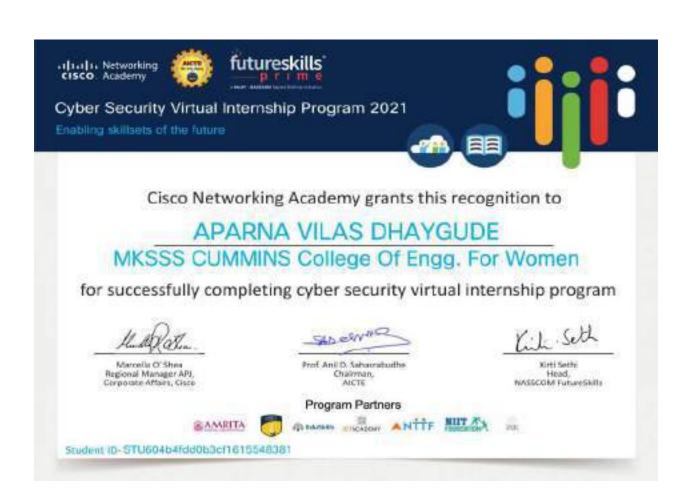
Very truly yours,

(HackersEra Cyber Security Consultancy and Training Pvt Ltd)

Vikash chauch

(3)

	Table of Content
Sr No	Topic Page No





TO WHOM IT MAY CONCERN

Date: 14/08/2021

This is to certify that **DONKAR VEDANTI PRAJAKT**, D/O – DONKAR APURVA PRAJAKT is a student of Information Technology, MKSSS's Cummins College of Engineering For Women, Pune. Has successfully completed 02 (Two) months (From 01st June 2021 to 31st July 2021) long internship programme at **HackersEra Cyber Security Consultancy and Training Pvt Ltd.**

During these periods of her internship programme with us, we found her hardworking, consistent and inquisitive. She was very much interested in learning the functions of our core division and willing to put her best efforts and get into the depth of the subject to understand it better.

Her association with us was very much faithful and we wish all the best for her future.

Very truly yours,

(HackersEra Cyber Security Consultancy and Training Pvt Ltd)

Vikash chauch

Address: 3rd Floor, Silver Spring Building, Survey No - 82, Sahyadri Farms, Baner, Pune, Maharashtra, 411045 contact@hackersera.com <u>www.hackersera.com</u>



Date : 03-Aug-2021

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Ms. Garina Mahajan student of MKSSS Cummins College of Engineering for Women, Maharashtra, has successfully completed the internship program from 03-Jun-2021 to 06 Aug 2021 with us under the guidance of Vijay Chandra Gutta, Senior Manager I, Software Engineering.

We wish all the success in pursuit of her academic achievements and professional career.

for WM Global Technology Services India Pvt. Ltd.,

Here's Surgla

Akash Gupta Director, Total Rewards & HR Operations

WM Global Technology Services India Private Limited Ingl. Of the Indiang 11, he from: BEZ CEDINA Business Park, Katalensenandt Vitege, Vartur Hatz, Care King Root, Bargeton East Teles, Bargeton - 560 1811 Prese V. 80-4028/08, Fax III.00.4008000 En CEDINKACIII VPTCOREIUS

Table of Contents



Student of MKSSS's Cummins College of Engineering for Women, Pune has successfully completed her 3 months Digital Marketing Internship with Minnano Consultancy (OPC) Pvt. Ltd. during the period April '21 to July '21.

During the course of the internship, **Ms. Priyanka** has shown a great amount of responsibility, and a genuine willingness to learn, and to take on new assignments and challenges. She handled all the responsibilities of the content, seo, social media posts and google analytics sincerely.

In particular, her coordination and digital marketing skills are par excellence!

We wish her all the very best for the future!



Authorized Signatory



Dated: 30th July, 2021

To Whomsoever It May Concern

This is to certify that Ms. Vaishnavi Gode has successfully completed her internship at Aligned Automation Services Private Limited from 1^{rt} June, 2021 to 30th July, 2021. She was undergoing training with Aligned Automation as below mentioned address:

Aligned Automation Services Private Limited Unit 1, 6th Floor, Fountainhead, Phoenix MarketCity, Viman Nagar Road, Pune – 411014

We found her sincere, hardworking, technically sound and result oriented. She worked well as a part of team during this tenure.

We take this opportunity to thank her and wish her all the best for her future.

Yours sincerely (signed and approved by)

Rajnesh Kumar EVP – Global Operations

[Goldman Sachs] Internship Completion Certificate

1 message

Kumari, Rupali [HCM] <Rupali,Kumari@gs.com> To: "shreya.hardas@cumminscollege.in" <shreya.hardas@cumminscollege.in> Fri, Jul 16, 2021 at 10:35 PM

Dear Sir / Madam,

Sub: Completion of 6 weeks internship

This is to confirm that Shreya Hardas completed his/her internship with Engineering division of Goldman Sachs Services Private Limited from June 07, 2021 to July 16, 2021

We wish him/her all the best for future endeavours.

Best Regards,

India Campus Recruiting



TO WHOM IT MAY CONCERN

Date: 14/08/2021

This is to certify that **Harshita Bhatt**, D/O – Mohan Chand Bhatt a student of Information Technology, Poornima College of Engineering, Jaipur. Has successfully completed 03 (Three) months (From 15th May 2019 to 15th July 2019) long internship programme at **HackersEra Cyber Security Consultancy and Training Pvt Ltd.**

During these periods of her internship programme with us, we found her hardworking, consistent and inquisitive. She was very much interested in learning the functions of our core division and willing to put her best efforts and get into the depth of the subject to understand it better.

Her association with us was very much faithful and we wish all the best for her future.

Very truly yours,

Vikash chauch



TO WHOM IT MAY CONCERN

Date: 02/08/2021

This is to certify that **Pragati Balaso Hirugade**, D/O –Balaso Hirugade ,student of Information Technology,MKSSS's Cummins College of Engineering For Women, Pune. Has successfully completed 02 (Two) months (From 1st June 2021 to 30th July 2021) long internship programme at **HackersEra Cyber Security Consultancy and Training Pvt Ltd.**

During these periods of her internship programme with us, we found her hardworking, consistent and inquisitive. She was very much interested in learning the functions of our core division and willing to put her best efforts and get into the depth of the subject to understand it better.

Her association with us was very much faithful and we wish all the best for her future.

Very truly yours,

Vikash church

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Title Page No. Introduction

5 Motivation 5

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6. Conclusion 7



To whomsoever it may concern

This is to certify that Pranjal Muralidhar Jadhav of MKSSS's Cummins College of Engineering for Women, Pune was working with Dell Technologies for his/her Internship Project.

	Project Details
Project Name	Employee LifeCycle Productline Team
Duration	7 th June 2021 to 30 th July 2021
Location	Bangalore
Reporting Manager Name	Lakshmi Vasudevan
Guide Name	Ganesan Eswar and Parul Sinha
Sponsor Name	Jennifer Erickson

He/ She has successfully completed the project. His/ Her findings in course of the project has been found to be practical and relevant. Some of the recommendations will be incorporated on approval from the business.

His/ Her performance during the tenure of the internship has been found to be satisfactory.

Thanking You,

Regards,

Samuel

Savneet Shergill Senior Director Talent Acquisition Dell Technologies

Dell International Services India Pvt. Ltd. Corporate Identification Number :U74999KA1996FTC055568 Registered Office : Divyashree Greens, Sy .Nos. 12/1,12/2A,13/1A, Challaghatta Village, Varthur Hobli, Bangalore-560071,Main: +91-08028077000 Fax:+91-8041520030 Dell.com



Student of **MKSSS's Cummins College of Engineering for Women, Pune** has successfully completed her 3 months **Digital Marketing Internship** with **Minnano Consultancy (OPC) Pvt. Ltd.** during the period **April '21 to July '21.**

During the course of the internship, **Ms. Ankita** has shown a great amount of responsibility, and a genuine willingness to learn, and to take on new assignments and challenges. She handled all the responsibilities of the content, seo, social media posts and google analytics sincerely.

In particular, her coordination and digital marketing skills are par excellence!

We wish her all the very best for the future!



Authorized Signatory



SAP Labs India Private Limited CIN: U72200KA1995PTC015484 138, Export Promotion Industrial Park, WhiteField, Bangalore 550055 Tel No. +91-80-4329 5355 Tel No. +91-80-4329 5555 http://www.sap.com



27.07.2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. Prerna Vijay Kamble, student of MKSSS, Cummins College of Engineering, Pune has successfully completed her project titled RDBMS to noSQL mapping for Data Archival at SAP Fieldglass, Bangalore under the guidance of Mr. Rajashekar, Mahesh Kumar, Senior Director Product Development.

Documentation of the application in the project report is not feasible due to its confidential nature. The interns are not allowed to share the application outside the workplace.

This project is in partial fulfillment of the requirements for the award of the degree **BTech Information Technology** for the academic year 2020-21. The duration of the project was from 7 June 2021 to 30 July 2021.

Thank you.

Yours faithfully

Rich

Sabish Kovath Bhaskar Manager, Local HR Services India

Confidential



TO WHOM IT MAY CONCERN

Date: 14/08/2021

This is to certify that **Surabhi Meghshyam Khaire**, D/O – Meghshyam Khaire a student of Information Technology, MKSSS's Cummins College of Engineering for Women, Pune. Has successfully completed 02 (Two) months (From 1st June 2021 to 31st July 2021) long internship programme at **HackersEra Cyber Security Consultancy and Training Pvt Ltd.**

During these periods of her internship programme with us, we found her hardworking, consistent and inquisitive. She was very much interested in learning the functions of our core division and willing to put her best efforts and get into the depth of the subject to understand it better.

Her association with us was very much faithful and we wish all the best for her future.

Very truly yours,

Vikash chauch



To whomsoever it may concern

This is to certify that Sharanya Kiran Kolhapure of MKSSS's Cummins College of Engineering for Women, Pune was working with Dell Technologies for his/her Internship Project.

Project Details		
Project Name	Mobile Material UI Development for TDMT	
Duration	7 ^m June 2021 to 30 ^m July 2021	
Location	Hyderabad	
Reporting Manager Name	Praveen Madamshetty	
Guide Name	Gadupudi Mohan	
Sponsor Name	Michelle Murphy	

He/ She has successfully completed the project. His/ Her findings in course of the project has been found to be practical and relevant. Some of the recommendations will be incorporated on approval from the business.

His/ Her performance during the tenure of the internship has been found to be satisfactory.

Thanking You,

Regards,

Assach

Savneet Shergill Senior Director Talent Acquisition **Dell Technologies**

> Dell International Services India Pvt. Ltd. Corporate Identification Number 1074999KA1996FTC055568 Registered Office: Divysitive Greens, Sy Nos. 12/1, 12/2A,13/1A, Challaghatta Village, Varthur Hobil, Bangalore-560071,Main: +91-08028077000 Fasc +91-804152003

with Contractor



WOMEN IN DATA SCIENCE PUNE

Date: 22rd September, 2021

Experience Letter

This is to certify that Sayali Oak has successfully served Summer Internship with WiDS Pune from 1st June 2021 to 31st July 2021 on part time basis.

We thank Sayali Oak for her contributions to WiDS Pune and wish her a great career and success in her future endeavours.

We would like her to respect and honour the NDA and maintain the confidentiality of data and information she had access to, as the part of the project or while working with us and do not use or share any data, analysis or results, with anyone as it's the property of WIDS Pune.

As learning is an on-going process, we encourage and recommend that she work on following the company processes and guidelines which are laid out at the beginning of the Internship, and are informed as a part of induction for your next internships, be proactive, alert, show interest and understand that sense of time and urgency. Students should increase self-study, research through internet, extensive browsing on the given topic, communication skills – not make assumptions, darify, plan ahead, think before doing anything, reason & apply proper logic to the task and clearly understand on what they are doing and why they are doing a particular task or activity.

Thanking you

Ms Sucheta Dhere WIDS Pune 2021 Ambassador

for WIDS CONFERENCE PRIVATE LIMITED.

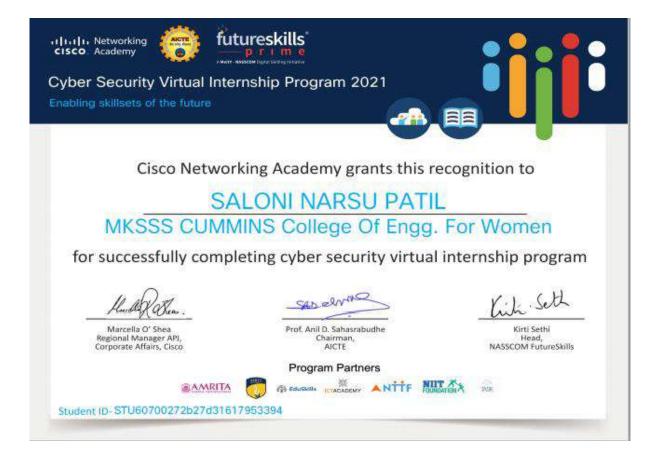
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Hidspane.com







To whomsoever it may concern

This is to certify that Rutwija Rajiv Phadke of MKSSS's Cummins College of Engineering for Women, Pune was working with Dell Technologies for his/her Internship Project.

	Project Details	
Project Name	CFI Self Services (Tools)	
Duration	7 th June 2021 to 30 th July 2021	
Location	Hyderabad	
Reporting Manager Name	Govardhani Jasti	
Guide Name	Nihal Kumar Das	
Sponsor Name	Jennifer Erickson	

He/ She has successfully completed the project. His/ Her findings in course of the project has been found to be practical and relevant. Some of the recommendations will be incorporated on approval from the business.

His/ Her performance during the tenure of the internship has been found to be satisfactory.

Thanking You,

Regards,

Internship Certificate



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	cessfully completed the a department of Surface Eng	ssignment on "Image Texture Ana Insering and Tribology.	lysis to Detect Performanc	e of Corrosion
Dated:		Lamile Sunder _	D.	ali



TO WHOM IT MAY CONCERN

Date: 14/08/2021

This is to certify that **Smita Komalsing Rajput**, a student of Information Technology, MKSSS's Cummins College of Engineering for Women, Pune. Has successfully completed 02 months (From 1st June 2021 to 31th July 2021) internship programme at **HackersEra Cyber Security Consultancy and Training Pvt Ltd.**

During these periods of her internship programme with us, we found her hardworking, consistent and inquisitive. She was very much interested in learning the functions of our core division and willing to put her best efforts and get into the depth of the subject to understand it better.

Her association with us was very much faithful and we wish all the best for her future.

Very truly yours,

Vikash cheuch



Subject: Internship Certificate Letter

This is to certify that Sakshi Goswami bearing Code:007 has successfully completed an internship with Plutecoder Technologies as an Android Developer intern in the training development and recruitment department from 1 June 2021 to 30 july 2021.

She has worked on the Multiple Project under the supervision and guidance of the team. During the course of the internship, she has gained several learnings and developed multiple skills.

Besides showing high comprehension capacity, managing assignments with the utmost expertise, and exhibiting maximal efficiency, she has also maintained an outstanding professional demeanor and showcased excellent moral character throughout the internship period.

I hereby certify her overall work excellent to the best of my knowledge.

Wishing her the best of luck for her future endeavors.

Thanking you, PLUTECODER TECHNOLOGIES, Saibal complex(1st floor),waykule plot,upalai road Barshi, Dist-Solapur. India - 7558656222 / 9096681338. Dubai (UAE) +971-501501949 www.plutecoder.in



Registered Office:

Ground Floor, Coral Block 3,

T +91 44-2254 6000 F +91 44-2254 1038

Embassy Splendid Tech Zone, 181/183, Pallavaram Thoraipakkam Radial Road, Pallavaram, Chennai – 600 043

August 6, 2021

To Whomsoever It May Concern

This is to certify that Gargi Sambhare has completed her internship at BNY Mellon Technology Private Ltd., (formerly known as iNautix Technologies India Private Ltd.), Pune commencing from June 1, 2021 and ending on August 6, 2021. During the period of internship program, she completed 10 weeks of training on Software Engineering. She was found punctual, hardworking and attentive during the internship program.

Sincerely,

For BNY Mellon Technology Private Limited

(This is a computer generated letter and does not require any further authentication, seal or attestation.)

BNY Mellon Technology Private Limited

CIN:U72900TN2000PTC044462



TO WHOM IT MAY CONCERN

Date: 14/08/2021

This is to certify that KRUTIKA SANAS, D/O – PRAKASH SANAS a student of Information Technology, MKSSS's Cummins College of Engineering For Women, Pune. Has successfully completed 03 (Three) months (From 15th May 2019 to 15th July 2019) long internship programme at HackersEra Cyber Security Consultancy and Training Pvt Ltd.

During these periods of her internship programme with us, we found her hardworking, consistent and inquisitive. She was very much interested in learning the functions of our core division and willing to put her best efforts and get into the depth of the subject to understand it better.

Her association with us was very much faithful and we wish all the best for her future.

Very truly yours,

Vikach chauch



TO WHOM IT MAY CONCERN

Date: 15/08/2021

This is to certify that **Prajakta Shrikant Saraf**, D/O – Shrikant Saraf a student of Information Technology, MKSSS's Cummins College of Engineering for Women, Pune. Has successfully completed 02 months (From 1st June 2021 to 31th July 2021) internship programme at **HackersEra Cyber Security Consultancy and Training Pvt Ltd.**

During these periods of her internship programme with us, we found her hardworking, consistent and inquisitive. She was very much interested in learning the functions of our core division and willing to put her best efforts and get into the depth of the subject to understand it better.

Her association with us was very much faithful and we wish all the best for her future.

Very truly yours,

Vikash chevel

CERTIFICATE FROM COMPANY



July 16, 2021

To Whom It May Concern

EXPERIENCE CERTIFICATE

This is to certify that **Shruti Naredi (EE ID 117496)** has done internship at Mastercard Technology Private Limited from May 17, 2021 to July 16, 2021 on **Operations & Technology** under the guidance of **Priyank Srivastava**.

We take this opportunity to thank and wish all the best for future

endeavors. Yours faithfully,

VA Singl-

For: Mastercard Technology Private Limited People.services@mastercard.com Global Business Services Center - HR Services

Mastercard Technology Private Limited Business Bay, 3rd Floor, Wing 1, Tower A, Survey No. 103, Opp Poona Club Golf Course, Airport Road, Yerwada, Pune-411006

Formerly known as ElectraCard Services Private Limited CIN - U72200PN2000PTC014585



Chinmayee Surwade Developer Program

Certificate of Completion July 2nd, 2021

Over the period of June 2021 to July 2021, Chinneyee Sureade has completed practical task modules in

Define becknock requirements Design changes to an existing architecture. Scala on-premise system infrestructure to the cloud Reading and understantising code Attention to detail

accenture

Debugging algorithms Unit testing User Acceptance Testing - UAT Security maturity assessment (AM policies and germissions

Securing the software development interpole (SBUC) Shaping the Problem Date and privacy

Johnny Rosenby Nordic Recruitment

Director



Tom Brunskill CEO, Co-Founder of Forage

Environment Vertication Dame a Connected Discillage | 1000 Vertication Circle Detarth all Device Berlin | 10000 by Farape.



TO WHOM IT MAY CONCERN

Date: 14/08/2021

This is to certify that **Mrunal Thosar**, D/O – Rajeev Thosar a student of Information Technology, MKSSS's Cummins College of Engineering for Women,Pune Has successfully completed 02 (Two) months (From 1st June 2021 to 31st July 2021) long internship programme at **HackersEra Cyber Security Consultancy and Training Pvt Ltd.**

During these periods of her internship programme with us, we found her hardworking, consistent and inquisitive. She was very much interested in learning the functions of our core division and willing to put her best efforts and get into the depth of the subject to understand it better.

Her association with us was very much faithful and we wish all the best for her future.

Very truly yours,

Vikash cheuch





WOMEN IN DATA SCIENCE PUNE

Date: 22rd September, 2021

Experience Letter

This is to certify that Sanika Watve has successfully served Summer Internship with WiDS Pune from 1st June 2021 to 31st July 2021 on part time basis.

We thank Sanika Watve for her contributions to WIDS Pune and wish her a great career and success in her future endeavours.

We would like her to respect and honour the NDA and maintain the confidentiality of data and information she had access to, as the part of the project or while working with us and do not use or share any data, analysis or results, with anyone as it's the property of WiDS Pune.

As learning is an on-going process, we encourage and recommend that she work on following the company processes and guidelines which are laid out at the beginning of the Internship, and are informed as a part of induction for your next internships, be proactive, alert, show interest and understand that sense of time and urgency. Students should increase self-study, research through internet, extensive browsing on the given topic, communication skills – not make assumptions, clarify, plan ahead, think before doing anything, reason & apply proper logic to the task and clearly understand on what they are doing and why they are doing a particular task or activity.

Thanking you

Ms Sucheta Dhere WiDS Pune 2021 Ambassador for WiDS CONFERENCE PRIVATE LIMITED

WOS Pure is itemas issued by Stanford University ICKE Departments WOS Inhalive

refer: https://www.wide.conference.org/

Reg, Address: B23 VATSALYA NAGARI 6TH FLOOR, NEW 100 FEET D P XOAD, NEAR GURU GANESH NAGAR, KOTHRUD, PUNE 411028

withpune.com









INTERNSHIP COMPLETION LETTER

TO WHOM IT MAY CONCERN

Date: 14/08/2021

This is to certify that **Aditi Bornare**, D/O – Nitin and Deepali Bornare, a student of Information Technology, Cummins College of Engineering for Women, Pune. Has successfully completed 02 (Two) months (From 1st June 2021 to 31st July 2021) long internship programme at **HackersEra Cyber Security Consultancy and Training Pvt Ltd.**

During these periods of her internship programme with us, we found her hardworking, consistent and inquisitive. She was very much interested in learning the functions of our core division and willing to put her best efforts and get into the depth of the subject to understand it better.

Her association with us was very much faithful and we wish all the best for her future.

Very truly yours,

(HackersEra Cyber Security Consultancy and Training Pvt Ltd)

Vikash cheuch



INTERNSHIP COMPLETION LETTER

TO WHOM IT MAY CONCERN

Date: 14/08/2021

This is to certify that **Gayatri Bharambe**, D/O – Sanjay Bharambe a student of Information Technology, Cummins College of Engineering for Women,Pune. Has successfully completed 02 (Two) months (From 1st June 2021 to 31th July 2021) long internship programme at **HackersEra Cyber Security Consultancy and Training Pvt Ltd.**

During these periods of her internship programme with us, we found her hardworking, consistent and inquisitive. She was very much interested in learning the functions of our core division and willing to put her best efforts and get into the depth of the subject to understand it better.

Her association with us was very much faithful and we wish all the best for her future.

Very truly yours,

(HackersEra Cyber Security Consultancy and Training Pvt Ltd)

Vikash cheuch

Internship certificate provided by the company





INTERNSHIP COMPLETION LETTER

TO WHOM IT MAY CONCERN

Date: 14/08/2021

This is to certify that **Srushti Chiddarwar**, D/O – SANJAY CHIDDARWAR a student of Information Technology, MKSSS's Cummins College of Engineering, Pune. Has successfully completed 02 (Two) months (From 1st June 2021 to 31st July 2021) long internship programme at **HackersEra Cyber Security Consultancy and Training Pvt Ltd.**

During these periods of her internship programme with us, we found her hardworking, consistent and inquisitive. She was very much interested in learning the functions of our core division and willing to put her best efforts and get into the depth of the subject to understand it better.

Her association with us was very much faithful and we wish all the best for her future.

Very truly yours,

(HackersEra Cyber Security Consultancy and Training Pvt Ltd)

Vikash cheuch



INTERNSHIP COMPLETION LETTER

TO WHOM IT MAY CONCERN

Date: 14/08/2021

This is to certify that **Muskan Singhal**, D/O –MUKESH SINGHAL a student of Information Technology, Mksss's Cummins College of Engineering for Women, Pune. Has successfully completed 02 (Two) months (From 1st June 2021 to 31st July 2021) long internship programme at **HackersEra Cyber Security Consultancy and Training Pvt Ltd.**

During these periods of her internship programme with us, we found her hardworking, consistent and inquisitive. She was very much interested in learning the functions of our core division and willing to put her best efforts and get into the depth of the subject to understand it better.

Her association with us was very much faithful and we wish all the best for her future.

Very truly yours,

(HackersEra Cyber Security Consultancy and Training Pvt Ltd)

Vikash cheuch

Internship Certificate provided by the Company





Enabling skillsets of the future

Cisco Networking Academy grants this recognition to

ANUSHKA MILIND GULHANE **MKSSS CUMMINS College Of Engg. For Women**

for successfully completing cyber security virtual internship program

Marcella O' Shea Regional Manager APJ, Corporate Affairs, Cisco

ADelvins

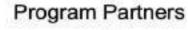
Prof. Anil D. Sahasrabudhe Chairman, AICTE

V.I. Set

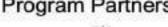
Kirti Sethi Head, NASSCOM FutureSkills

TASK





B EduSkills



ICTACADEMY

Student ID-STU607885f81ee471618511352



Enabling skillsets of the future

Cisco Networking Academy grants this recognition to

1

HINDAVI KAILAS KALASKAR **MKSSS CUMMINS College Of Engg. For Women**

for successfully completing cyber security virtual internship program

Marcella O' Shea Regional Manager APJ, Corporate Affairs, Cisco

ADelvins

Prof. Anil D. Sahasrabudhe Chairman, AICTE

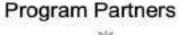
V.I. Sett

Kirti Sethi Head, NASSCOM FutureSkills

NEAT









ICTACADEMY B EduSkills

Student ID-STU60785e6b456421618501227



Enabling skillsets of the future

Cisco Networking Academy grants this recognition to

1

IEESHA AMOL DESHMUKH MKSSS CUMMINS College Of Engg. For Women

for successfully completing cyber security virtual internship program

Marcella O' Shea Regional Manager APJ, Corporate Affairs, Cisco

ADelvins

Prof. Anil D. Sahasrabudhe Chairman, AICTE

Program Partners

EduSkills

ICTACADEMY

V.I. Set

Kirti Sethi Head, NASSCOM FutureSkills

NEAT







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Cisco Networking Academy grants this recognition to

1

KAREENA RAVI GANSHANI MKSSS CUMMINS College Of Engg. For Women

for successfully completing cyber security virtual internship program

Marcella O' Shea Regional Manager APJ, Corporate Affairs, Cisco

ADelvins

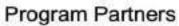
Prof. Anil D. Sahasrabudhe Chairman, AICTE

V.I. Sett

Kirti Sethi Head, NASSCOM FutureSkills

NEAT











Student ID-STU60784be6573871618496486



Enabling skillsets of the future

Cisco Networking Academy grants this recognition to

MEGHA DATTATRAY MULE **MKSSS CUMMINS College Of Engg. For Women**

for successfully completing cyber security virtual internship program

Marcella O' Shea Regional Manager APJ, Corporate Affairs, Cisco

ADelvins

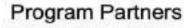
Prof. Anil D. Sahasrabudhe Chairman, AICTE

V.I. Sett

Kirti Sethi Head, NASSCOM FutureSkills

TASK









Student ID-STU608a7cbada98b1619688634



Enabling skillsets of the future

Cisco Networking Academy grants this recognition to

MEGHANA MOHANTY MKSSS CUMMINS College Of Engg. For Women

for successfully completing cyber security virtual internship program

Marcella O' Shea Regional Manager APJ, Corporate Affairs, Cisco

ADelvins

Prof. Anil D. Sahasrabudhe Chairman, AICTE

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V.I. Set

Kirti Sethi Head, NASSCOM FutureSkills

TASK





Student ID-STU60784ba08bb0b1618496416





Enabling skillsets of the future

Cisco Networking Academy grants this recognition to

-

MITALI MAHENDRA DESHPANDE MKSSS CUMMINS College Of Engg. For Women

for successfully completing cyber security virtual internship program

Marcella O' Shea Regional Manager APJ, Corporate Affairs, Cisco

Student ID-STU607886426cdbf1618511426

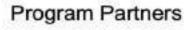
ADelvins

Prof. Anil D. Sahasrabudhe Chairman, AICTE

V.I. Sett

Kirti Sethi Head, NASSCOM FutureSkills











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NEHA RAJENDRA TONPE MKSSS CUMMINS College Of Engg. For Women

for successfully completing cyber security virtual internship program

Marcella O' Shea Regional Manager APJ, Corporate Affairs, Cisco

ADelvins

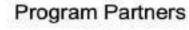
Prof. Anil D. Sahasrabudhe Chairman, AICTE

V.I. Sett

Kirti Sethi Head, NASSCOM FutureSkills

TASK





ICTACADEMY EduSkills

Student ID-STU608a8d7228d2a1619692914





Enabling skillsets of the future

Cisco Networking Academy grants this recognition to

PRANITA PANDURANG BIRAJDAR **MKSSS CUMMINS College Of Engg. For Women**

for successfully completing cyber security virtual internship program

Marcella O' Shea Regional Manager APJ, Corporate Affairs, Cisco

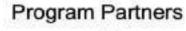
ADelvins

Prof. Anil D. Sahasrabudhe Chairman, AICTE

V.I. Sett

Kirti Sethi Head, NASSCOM FutureSkills





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11



Student ID-STU607881033a2871618510083



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PRIYANKA SANJAY GITTE MKSSS CUMMINS College Of Engg. For Women

for successfully completing cyber security virtual internship program

Marcella O' Shea Regional Manager APJ, Corporate Affairs, Cisco

ADelvins

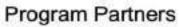
Prof. Anil D. Sahasrabudhe Chairman, AICTE

V.I. Sett

Kirti Sethi Head, NASSCOM FutureSkills

TASK











Student ID-STU60700e668b96d1617956454



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Cisco Networking Academy grants this recognition to

RASIKA PRASHANT PANDE MKSSS CUMMINS College Of Engg. For Women

for successfully completing cyber security virtual internship program

Marcella O' Shea Regional Manager APJ, Corporate Affairs, Cisco

Student ID-STU607867170514f1618503447

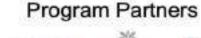
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V.I. Set

Kirti Sethi Head, NASSCOM FutureSkills











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1

REWA KHER

MKSSS CUMMINS College Of Engg. For Women

for successfully completing cyber security virtual internship program

Marcella O' Shea Regional Manager APJ, Corporate Affairs, Cisco

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Prof. Anil D. Sahasrabudhe Chairman, AICTE

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Kirti Sethi Head, NASSCOM FutureSkills

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Student ID-STU608a886dd8d251619691629





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-

RUCHITA MANDAR HERLEKAR **MKSSS CUMMINS College Of Engg. For Women**

for successfully completing cyber security virtual internship program

Marcella O' Shea Regional Manager APJ, Corporate Affairs, Cisco

ADelvins

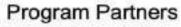
Prof. Anil D. Sahasrabudhe Chairman, AICTE

V.I. Sett

Kirti Sethi Head, NASSCOM FutureSkills

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Student ID-STU608bd2243d35b1619776036





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RUTUJA RAVIKANT DHERANGE MKSSS CUMMINS College Of Engg. For Women

for successfully completing cyber security virtual internship program

Marcella O' Shea Regional Manager APJ, Corporate Affairs, Cisco

ADelvins

Prof. Anil D. Sahasrabudhe Chairman, AICTE

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Kirti Sethi Head, NASSCOM FutureSkills

NEAT



Student ID-STU60784ca36f6461618496675





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RUTUJA PRATAP GHORPADE MKSSS CUMMINS College Of Engg. For Women

for successfully completing cyber security virtual internship program

Marcella O' Shea Regional Manager APJ, Corporate Affairs, Cisco

ADelvins

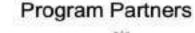
Prof. Anil D. Sahasrabudhe Chairman, AICTE

V.I. Sett

Kirti Sethi Head, NASSCOM FutureSkills

NEAT





B Eduskille ICTACADEMY



Student ID-STU60787afecc9941618508542



Enabling skillsets of the future

Cisco Networking Academy grants this recognition to

-

SAISHWARI SANTOSH GURAV **MKSSS CUMMINS College Of Engg. For Women**

for successfully completing cyber security virtual internship program

Marcella O' Shea Regional Manager APJ, Corporate Affairs, Cisco

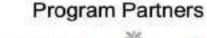
ADelvins

Prof. Anil D. Sahasrabudhe Chairman, AICTE

V.I. Sett

Kirti Sethi Head, NASSCOM FutureSkills











Student ID-STU608a754d30adf1619686733



Enabling skillsets of the future

Cisco Networking Academy grants this recognition to

SAKSHI VIKAS KAMBLE MKSSS CUMMINS College Of Engg. For Women

for successfully completing cyber security virtual internship program

Marcella O' Shea Regional Manager APJ, Corporate Affairs, Cisco

ADelvins

Prof. Anil D. Sahasrabudhe Chairman, AICTE

Program Partners

EduSkills

ICTACADEMY

V.I. Set

Kirti Sethi Head, NASSCOM FutureSkills

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Student ID-STU5f4a1676342d61598690934



Enabling skillsets of the future

Cisco Networking Academy grants this recognition to

SALONI GARG

MKSSS CUMMINS College Of Engg. For Women

for successfully completing cyber security virtual internship program

Marcella O' Shea Regional Manager APJ, Corporate Affairs, Cisco

ADelvins

Prof. Anil D. Sahasrabudhe Chairman, AICTE

V. J. Sett

Kirti Sethi Head, NASSCOM FutureSkills

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EduSkills

Student ID-STU608a74dccdaab1619686620



Enabling skillsets of the future

Cisco Networking Academy grants this recognition to

SIDDHI RATANLAL BHUTADA **MKSSS CUMMINS College Of Engg. For Women**

for successfully completing cyber security virtual internship program

Marcella O' Shea Regional Manager APJ, Corporate Affairs, Cisco

ADelvins

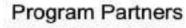
Prof. Anil D. Sahasrabudhe Chairman, AICTE

V.I. Sett

Kirti Sethi Head, NASSCOM FutureSkills

NEAT





ICTACADEMY

B EduSkills

Student ID-STU60785c2d5d84e1618500653



Enabling skillsets of the future

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SIMRAN MAHESH CHANDAK MKSSS CUMMINS College Of Engg. For Women

for successfully completing cyber security virtual internship program

Marcella O' Shea Regional Manager APJ, Corporate Affairs, Cisco

Student ID-STU60784decc98e91618497004

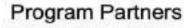
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V. J. Sett

Kirti Sethi Head, NASSCOM FutureSkills





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Enabling skillsets of the future

Cisco Networking Academy grants this recognition to

TANVI NIKHIL SHROFF

MKSSS CUMMINS College Of Engineering For Women, Pune

for successfully completing cyber security virtual internship program

Marcella O' Shea Regional Manager APJ, Corporate Affairs, Cisco

ADelvin

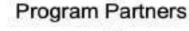
Prof. Anil D. Sahasrabudhe Chairman, AICTE

V. J. Sett

Kirti Sethi Head, NASSCOM FutureSkills

TASK





EduSkills



Student ID-STU60a68ae40f7b41621527268



Enabling skillsets of the future

Cisco Networking Academy grants this recognition to

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TEJAL GOVIND BHAGWATIKAR MKSSS CUMMINS College Of Engg. For Women

for successfully completing cyber security virtual internship program

Marcella O' Shea Regional Manager APJ, Corporate Affairs, Cisco

Student ID-STU608a74f17c5971619686641

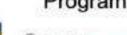
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Prof. Anil D. Sahasrabudhe Chairman, AICTE

V.I. Sett

Kirti Sethi Head, NASSCOM FutureSkills









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Cisco Networking Academy grants this recognition to

VAISHNAVI RANI

MKSSS CUMMINS College Of Engg. For Women

for successfully completing cyber security virtual internship program

Marcella O' Shea Regional Manager APJ, Corporate Affairs, Cisco

SAD elvins

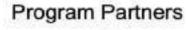
Prof. Anil D. Sahasrabudhe Chairman, AICTE

V.I. Sett

Kirti Sethi Head, NASSCOM FutureSkills

TASK









Student ID-STU6047b61dd70a81615312413



Enabling skillsets of the future

Cisco Networking Academy grants this recognition to

VAISHVI RAINA

MKSSS CUMMINS College Of Engg. For Women

for successfully completing cyber security virtual internship program

Marcella O' Shea Regional Manager APJ, Corporate Affairs, Cisco

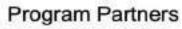
ADelvins

Prof. Anil D. Sahasrabudhe Chairman, AICTE

V.I. Sett

Kirti Sethi Head, NASSCOM FutureSkills











Student ID-STU608a860e7ec4a1619691022



Enabling skillsets of the future

Cisco Networking Academy grants this recognition to

VIDHI MANOJ PHATNANI MKSSS CUMMINS College Of Engg. For Women

for successfully completing cyber security virtual internship program

Marcella O' Shea Regional Manager APJ, Corporate Affairs, Cisco

ADelvins

Prof. Anil D. Sahasrabudhe Chairman, AICTE

V.I. Sett

Kirti Sethi Head, NASSCOM FutureSkills

TASK







Student ID-STU607907bec97031618544574



Committee College of Engineering for Romen, Pane

a metoromous brailinte affliated to Saultrian Phale Pune University

Department of Computer Engineers



CERTIFICATE

This is to certify that the project report entitled

DATA DEDUPLICATION ENGINE FOR A CLOUD-BASED BACKUP SYSTEM

SUBMITTED BY

ISHANI ATRE-C22019221311 SWATI SANJEEV BORSE- C22019221320 SHRUTI DATAR- C22019221330 RADHIKA WADEKAR-C22019221470

are bonafide students of this institute and the work has been carried out by them under the supervision of Prof A.N.Muchrikar & Dr. Shilpa Deshpande and it is approved for the partial fulfilment of the requirement of Savitribai Phule Pune University, for the award of the degree of Bachelor of Technology in Computer Engineering.

Dr. Shilpa Deshpande Guide Department of Computer Engineering

Dr. Supriya Kelkar Head Department of Computer Engineering

Place : Pune Date: 29/05/2023

Prof. Ashutosh Muchrikar

Guide Department of Computer Engineering

Dr.M.B.Khambete Principal Cummins College of Engineering for Women,Pune

2

CCEW, Department of Computer Engineering 2022-23

B-Tech Project Report

Face Detection and Recognition System



CERTIFICATE

This is to certify that the project report entitled

"FACE DETECTION AND RECOGNITION SYSTEM"

Submitted by

MADHURA MHASE	Exam No : C22019221412
SEJAL PAGARE	Exam No : C22019111221
AMRUTA KOTGIRE	Exam No : C22019221371
SHIVANI BHANGADE	Exam No : C22019221312

are bonafide student of this institute and the work has been carried out by them under the supervision of **Ms.Vaishali Salgar and Ms. Anuja Kulkarni** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Computer Engineering**.

Vart

External Examiner

MEGHNA VAIDYA

Ms. Vaishali Salgar

Guide Dept. of Computer Engg.

Dr. Supriya Kelkar Head.

Department of Computer Engineering

Place : Pune

Date

CCOEW, Department of Computer Engineering 2022-23 2

Ms. Anuja Kulkarni Guide Dept. of Computer Engg.

Dr. M. B. Khambete

Dr. M. B. Khambete Principal,

Cummins College of Engg. for Women Pune - 52



This is to certify that the project report entitles

"MODI SCRIPT CHARACTER RECOGNITION AND WORD SEGMENTATION"

Submitted by

RUTUJA WASU	C22019881950 (ROLL NO.4950)
SEJAL LOYA	C22019881953 (ROLL NO.4953)
SHRAVANI YANNA	C22019881965 (ROLL NO.4965)

are bonafide students of this institute and the work has been carried out by them under the supervision of **Prof.Dr. Mahendra Deore** and it is approved for the partial fulfillment of the requirement of Cummins College of Engineering for Women, Karvenagar, Pune (an autonomous institute affiliated to Savitribai Phule Pune University.), for the award of the degree of **Bachelor of Technology** (Computer Engineering).

NEDECEC

(Prof. Dr. Mahendra Deore)

Department of Computer Engineering

(Dr. S. M. Kelkar)

Head, Department of Computer Engineering

(Dr. M.B. Khambete)

gioting pro 1 m

Director, Cummins College of Engineering for Women Pune

Place: Pune

Date: 29 May 2023

CCOEW, Department of Computer Engineering 2022-2023



This is to certify that the project report entitled

"IMPLEMENTATION OF TEXT ANALYTICS TECHNIQUES TO ENRICH DATA AND GET INSIGHTS"

Submitted by

ADITI KAJALE	C22019221362	(4358)
ANANYA JOSHI	C22019881926	(4926)
JANHAVI GADRE	C22019881919	(4919)
SAMRUDDHI DEODE	C22019221331	(4328)

is a bonafide student at this institute and the work has been carried out by her under the supervision of **Prof. Dr. Shilpa Deshpande** and it is approved for the partial fulfilment of the requirement of Cummins college of engineering for women, Karvenagar, Pune (an autonomous institute affiliated to Savitribai Phule Pune university),

for the award of the degree of Bachelor of Technology (Computer Engineering)

(Prof. Dr. Shilpa Deshpande) Guide, Department of Computer Engineering (Dr. Supriya Kelkar) Head, Department of Computer Engineering

(Dr. M. B. Khambete)

Director, Cummins College of Engineering for Women

Place: Pune Date: 2705/2023

applied and the maintenance of the conduction of the



This is to certify that the project report entitles LEARNAROUND: A MOBILE APP FOR NEARBY LEARNING

SUBMITTED BY

CNUM	ROLL NO.
C22019221418	4418
C22019221459	4458
C22019221460	4459
C22019221461	4460
	C22019221418 C22019221459 C22019221460

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Dr. Sheetal Barekar** it is approved for the partial fulfillment of the requirement of

> Cummins College of Engineering for Women, Karvenagar, Pune (an autonomous institute affiliated with Savitribai Pune University.),

for the award of the degree of Bachelor of Technology (Computer Engineering).

Prof. Dr. Sheetal Barekar

Guide

Head,

Department of Computer Engineering

Department of Computer Engineering

Dr. M. B. Khambete

Director,

Cummins College of Engineering for Women Pune- 52.

Place: Pune

Date: 27/05/2023

CCOEW, Department of Computer Engineering 2022-23

This is to certify that the project report entitles

अन्वयार्थ (Anvayartha) Paraphrasing Tool for Low Resource Language

nitted by	
CNUM	ROLL NO
C22019881908	4908
C22019881934	4934
C22019881945	4945
C22019881946	4946
	CNUM C22019881908 C22019881934 C22019881934

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Pranjali Deshpande** and it is approved for the partial fulfillment of the requirement of Cummins college of engineering for women, karvenagar, pune (an autonomous institute affiliated to savitribai phule pune university.),

for the award of the degree of Bachelor of Technology (Computer Engineering).

(Prof. Pranjali Deshpande)

Guide

Department of Computer Engineering

(Dr. Supriya Kelkar) Head, Department of Computer Engineering

(Dr. M. B. Khambete)

Principal, Cummins College of Engineering for Women Pune - 52

en D. I Mar

Place Pune

CCEW, Department of Computer Engineering 2022-23



This is to certify that the project report entitled

"SOCIOFIX - It starts with us"

Submitted hy

STUDENT NAME	CNUM	(ROLL NO.)
YUTIKA PATEL	C22019221422	(4422)
SHUBHANGI SHARMA	C22019221452	(4451)
SHUBHANI MATHUR	C22019221453	(4452)
RUTUJA UDHANE	C22019221465	(4464)

is a bonafide student of this institute and the work has been carried out by her under the supervision of Prof. A. B. C and it is approved for the partial fulfillment of the requirement of

Cummins College of Engineering for Women, Karve Nagar, Pune

(an autonomous institute affiliated to Savitribai Phule pune university.),

for the award of the degree of Bachelor of Technology (Computer Engineering).

(Dr. Sheetal Barekar) GUIDE Department of computer Engineering

(Dr. S. M. Kelkar) Head. Department of computer Engineering

Michael

(Dr. M. B. Khambete)

Director, Department of computer Engineering

Place: Pune

Date:

CCOEW, Department of Computer Engineering 2022-23

2



This is to certify that the project report entitled

"PRIVACY PRESERVING THEFT DETECTION IN SMART GRIDS USING IBM FHE TOOLKIT"

Submitted by

STUDENT NAME

Exam No:

GARGI JOSHI C22020222304 SEJAL KSHIRSAGAR C22019221374 KETAKI KOTHALE C22019221372 SHREYA ABHYANKAR C22019221303

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Hitendra Khairnar** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Computer Engineering**.

Iclass 2

(Prof. Hitendra Khairnar) Guide r Department of Computer Engineering

(Dr. Supriya Kelkar) Head,

epartment of Computer Engineering

(Dr. M. B. Khambete) Principal,

Cummins College of Engineering for Women Pune - 52

Place Pune

Date: 02/05/2023



This is to certify that Project Report entitles

"INTRODUCING DIGITAL TWIN TO A PROCESS-BASED DIGITAL TWIN PRODUCT"

Submitted by

ANANDAMAYEE MODAK PRANJAL MORE SHARVARI PHADKE SAI ATHALE

C22019221413 C22019221414 C22019221430 C22019221310

M. Kelkar

HOD.

Are bonafide students of this institute and the work has been carried out by them under the supervision of Prof. Mr. Ashutosh Muchrikar and it is approved for the partial fulfillment of the requirement of Cummins College of Engineering for Women, Karvenagar, Pune

(An autonomous institute affiliated to Savitribai Phule Pune University),

for the award of the degree of Bachelor of Technology (Computer Engineering).

Ashutosh Muchrikar

Guide

Department of Computer Engineering

Department of Computer Engineering

Dr. Mrs. M.B. Khambete

Principal,

Cummins College of Engineering for Women Pune - 52

Place: Pune

Date: 27 /05/2023

CCOEW, Department of Computer Engineering 2022-23



PROJECT COMPLETION CERTIFICATE

This is to certify that Ms Srishti Sawkar Intern ID 40148815 student of "MKSSS's Cummins College of Engineering for Women" has completed the project entitled "Planogram Compliance for Retail Stores" under the guidance of "Amit Thapak" from 11th Nov 2022 to 02nd May 2023 at Pune for the academic requirements of her graduation.

We have observed that your work was excellent and we appreciate your sincere learning. You have performed the project with energy and enthusiasm. This letter is issued based on your request.

We wish you all the very best in your career ahead!

Yours sincerely, For Wipro Limited,

Aparna Shailen General Manager - Human Resources

Registered Office: Wipro Limited T +91 (80) 28 Doddakannall F +91 (80) 28 Sarjapur Road E info@wipro Internal.to.Wipt0035 W wipro.com India C +132102KA1





PROJECT COMPLETION CERTIFICATE

This is to certify that Ms Samiksha Patil Intern ID 40148812 student of "MKSSS's Cummins College of Engineering for Women" has completed the project entitled "Planogram Compliance for Retail Stores" under the guidance of "Amit Thapak" from 11th Nov 2022 to 02nd May 2023 at Pune for the academic requirements of her graduation.

We have observed that your work was excellent and we appreciate your sincere learning. You have performed the project with energy and enthusiasm.

We wish you all the very best in your career ahead!

Yours sincerely, For Wipro Limited,

Aparna Shailen General Manager - Human Resources

 Wipro Limited
 T
 +91 (80) 28

 Doddakamali
 F
 +91 (80) 28

 Sariapur Road
 E
 info@wipro

 Internal Q_WippO035
 W
 wipro.com

 India
 C
 L22102KA1





PROJECT COMPLETION CERTIFICATE

This is to certify that Ms Nupur Shah Intern ID 40148809 student of "MKSSS's Cummins College of Engineering for Women" has completed the project entitled "Planogram Compliance for Retail Stores" under the guidance of "Amit Thapak" from 11th Nov 2022 to 02nd May 2023 at Pune for the academic requirements of her graduation.

We have observed that your work was excellent and we appreciate your sincere learning. You have performed the project with energy and enthusiasm. This letter is issued based on your request.

We wish you all the very best in your career ahead!

Yours sincerely, For Wipro Limited,

Aparna Shailen General Manager - Human Resources

Registered Office: Wipro Limited T +91 (80) 28 Doddakannall F +91 (80) 28 Sarjapur Road E info@wipro Internal.to.Wipt0035 W wipro.com India C +132102KA1





PROJECT COMPLETION CERTIFICATE

This is to certify that Ms. Ketaki Sane Intern ID 40148814 student of "MKSSS's Cummins College of Engineering for Women" has completed the project entitled "Planogram Compliance for Retail Stores" under the guidance of "Amit Thapak" from 11th Nov 2022 to 02nd May 2023 at Pune for the academic requirements of her graduation.

We have observed that your work was excellent and we appreciate your sincere learning. You have performed the project with energy and enthusiasm. This letter is issued based on your request.

We wish you all the very best in your career ahead!

Yours sincerely, For Wipro Limited,

Aparna Shailen General Manager - Human Resources

Registered Office: Wipro Limited T +91 (80) 28 Doddakannall F +91 (80) 28 Sarjapur Road E info@wipro Internal.to.Wipt0035 W wipro.com India C +132102KA1





This is to certify that the project report entitles

" CHAT APPLICATION WITH SPAM DETECTION"

Submitted By

PRAJAKTA DEOKULE	C22019221332	4329
MAITREVEE JOSHI	C22019221355	4351
TANVIKATAKKAR	C12020222305	4376
LAVANNYA PATIL	C22020222306	4377

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Rakhi A. Dongaonkar** and it is approved for the partial fulfillment of the requirement of cummins college of engineering for women, kirvenagar, pune

(An autonomous institute affiliated to Savitribai Phule Pune University.).

for the award of the degree of Bachelor of Technology (Computer Engineering).

(Prof. Rakhi Dongaonkar)

12DC

(Dr. S. M. Kelkar)

Guide. Department of Computer Engineering Head, Department of Computer Engineering

(Dr. M.B. Khambete)

Director,

Cummins College of Engineering for Women

Place : Pune

Date: 28. 5. 23

CCEW, Department of Computer Engineering 2022-2023



This is to certify that the project report entities

" M+M (MEDICINES PLUS MORE) E-COMMERCE PLATFORM FOR PHARMACIES"

Submitted by

 STUDENT NAME - VAISHNAVI BHAVSAR
 CNUM
 C22019221315 (4312)

 NISHA DESHMUKH
 C22019221334 (4331)

 YAMINI DONGAONKAR
 C22019221338 (4335)

 SAAVI JOSHI
 C22019221357 (4353)

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Prakash Date** and it is approved for the partial fulfillment of the requirement college of engineering for women, karvenagar, punetan autonomous institute affiliated to savitribai phule pune university. I

for the award of the degree of Bachelor of Technology (Computer Engineering)

(Prof. Prakash Date)

Guide Department of Computer Engine

(Dr. S. M Kelkar)

Head.

(Dr. M.B. Khambete)

cummins college of engineering for women

Director.

Place Pune Date: 27-05-2023

CCOEW, Department of Computer Engineering 2022-23

2



This is to certify that the project report entitled

Differential Privacy

Submitted by

Sanika Bharambe Jasmine Joshi Mrunmayee Waykar Sanjyot Amritkar

is a bonafide student of this institute and the work has been carried out by her under the supervision of | Prof. S.P. Mengale and it is approved for the partial fulfilment of the requirement of

Cummins College of Engineering for Women, Karvenagar, Pune, (An autonomous institute affiliated to Savitribai Phule Pune University.), for the award of the degree of Bachelor of Technology (Computer Engineering)

(Prof. Varsha Pimprale) Guide Department of Computer Engineering

(Dr. M. B. Khambete) Director, CCOEW Pune - 52

(ernal)

(Dr. Supriya Kelkar) Head, Department of Computer Engineering

Place: Pune

Date: 27/05/2023

CCOEW, Department of Computer Engineering 2022-23

2



This is to certify that the project report entitles "VARIABLE DBSCAN WITH INCORPORATION OF GRID BASED CLUSTERING"

Submitted by,

SAKSHI NALAWADE SANNIDHI GOKHALE SAKSHI INGALE

(C22019881939) (C22019881923) (C22019881924)

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Dr. Sunita Jahirabadkar** and it is approved for the partial fulfillment of the requirement of Cummins College of Engineering for Women, Karvenagar, Pune (An autonomous institute affiliated to Savitribai Phule Pune University).

for the award of the degree of Bachelor of Technology (Computer Engineering)

Dr Sunita Jahirabadkar Guide,

Department of Computer Engineering

Dr. S. M. Kelkar Head.

Department of Computer Engineering

Dr. M.B. KhamBete

Director,

MKSSS's Cummins College of Engineering for Women, Pune

Place: Pune Date:



This is to certify that the project report entitled

VIDEO CONSULTATION FOR PATIENTS AND COLLABORATION PLATFORMS FOR HEALTHCARE PROFESSIONALS

submitted by

MANSI INDORE SANIKA GHARE SHRIYA RAINA SNEHA JADHAV

CNUM : C22019221350 - 4347 CNUM : C22019221345 - 4342 CNUM : C22019221302 - 4371 CNUM : C22019221354 - 4350

are bonafide student of this institute and their work has been carried out by her under the supervision of Prof. Mahendra Deore and it is approved for the partial fulfillment of the requirement of

Cummins College of Engineering for Women, Karve Nagar, Pune (an autonomous institute affiliated with Savitribai Phule Pune University.), for the award of the degree of Bachelor of Technology (Computer Engineering).

and

Prof. Makendra Deore Department of Computer Engineering

Dr.S.M.Kelkar Department of Computer Engineering J

Dr. M.B. Khambete

Director, Cummins College of Engineering for Women

beering for Wenten

Bulete

Place: Pune Date:

Blinde



This is to certify that the project report entitled

"ADDING NEW OPTIMIZATION PASS OF REGISTER ALLOCATION"

Submitted by

GAURI GAJANAN AMIN GOURAVI RAJESH DORKHANDE ANKITA ANIL MANE MUKTA DHANANJAY OGALE C22019881904 (4904) C22019881917 (4917) C22019881935 (4935) C22019881942 (4942)

is a bonafide student of this institute and the work has been carried out by her under the supervision of Dr. Chhaya Gosavi and Ms. Ashwini Tande and it is approved for the partial fulfillment of the requirement of Savitribai Phule\Pune University, for the award of the degree of Bachelor of Computer Engineering.

Dr. Classy's Gosavi Guide Department of Computer Engineering

Dr. Supriya Kelkar Head

Department of Computer Engineering

Dr. M. B. Khambete

Director, Cummins College of Engineering for Women, Pune - 52

Place: Pune Date: 29-05-2023

CCOEW, Department of Computer Engineering 2022-23

2



This is to certify that the project report entitles

"SECURE-FS IN LINUX KERNEL"

Submitted by

GARGI KULKARNI C22019221402 (4402) PARNAVI KULKARNI C22019221404 (4404) MRUNMAYEE MANMADKAR C22019221411 (4411) SANYUKTA MULEY C22019221415 (4415)

is a bonafide student of this institute and the work has been carried out by her under the supervision of Prof. Aparna Hazare and it is approved for the partial fulfillment of the requirement of cummins college of engineering for women, karvenagar, pune(an autonomous institute affiliated to savitribai phule pune university.),for the award of the degree of Bachelor of Technology (Computer Engineering)

Prof. Ararna Hazare Dr S M Kelka Guido Head. Department of Computer Engineering Department of Computer Eng (Dr. M.B. Khambete)

Director,

cummins college of engineering for women

Place : Pune

Date :

CCOEW, Department of Computer Engineering 2022-23



This is to certify that the project report entitled

"SWARAKSHA - WOMEN'S SAFETY APP WITH WEARABLE DEVICE "

Submitted by

SUBMITTED BY :

BHAKTI KULKARNI(C22019221401) BHAKTI PAGAR(C22019221420) RIYA PATHE(C22019221423) YUGA THARKUDE(C22019221461)

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Dr. Sushila Shelke** and it is approved for the partial fulfillment of the requirement college of engineering for women, Karve Nagar, pune(an autonomous institute affiliated to Savitribai Phule pune university.).

for the award of the degree of Bachelor of Technology

(Computer Engineering)

(Dr.Sushila Shelke) Guide Department of Computer Engineering

(Dr. S. M Kelkar) Head Department of Computer Engineering

- (Dr. M.B. Khambete) Director, Cummins College of Engineering for Women

Place : Pune Date : 27/05/2023

CCDEW. Department of Computer Engineering 2022-23



This is to certify that the project report entitles

"CUSTOMER 360 NBA/NBO FOR WEALTH MANAGEMENT" Submitted by

STUDENT NAME	CNUM	ROLL NO.
SEJAL SANJAY MANGAVE	C22019221410	4410
SAI AKSHITHA BODDUPALLI	C22019221440	4440
NAVYA VIKAS SHUKLA	C22019221454	4453
GOURI LALIT SOMANI	C22019221456	4455

is a bonafide student of this institute and the work has been carried out by her under the supervision of Prof. Shalpa ⁹ and it is approved for the partial fulfilment of the requirement of Cummins College of Engineering for Women, Karvenagar, Pune (an autonomous institute affiliated to Savitribai Phule Pune University.), for the award of the degree of Bachelor of Technology.

(Computer Engineering).

(Prof. Shilpa Pant) Guide Department of Computer Engineering

(Dr. S. M. Kelkar) Head Department of Computer Engineering

(Dr. M.B. Khambete)

Director. Cummins College of Engineering for Women

02. O.T. Mone

Place: Pune

Date: 22 May 2023



This is to certify that the project report entitles

"FUSION OF THERMAL AND OPTICAL FEATURES IN CLASSIFICATION OF SPACE OBJECTS"

Submitted by

SEJAL CHAUDHARI GRISHMA DESHMUKH SAI GOKHALE RAAHI KADU CNUM :C22019221325 ROLL NO. 4322 CNUM :C22019221333 ROLL NO. 4330 CNUM :C22019221348 ROLL NO. 4345 CNUM :C22019221361 ROLL NO. 4357

are the bonafide students of this institute and the work has been carried out by her under the supervision of **Prof. Dr. Sunita Jahirabadkar** and it is approved for the partial fulfillment of the requirement of Cummins College of Engineering for Women, Karvenagar, Pune (an autonomous institute affiliated to Savtribai Phule Pune University),

(an autonomous institute annaled to Gavenbalogy (Computer Engineering), for the award of the degree of Bachelor of Technology (Computer Engineering).

Dr. Sunity Jahirabadkar Guide, Department of Computer Engineering

Dr. S. M. Kelkar Head, Department of Computer Engineering

Dr. M.B. Khambete Director, Cummins College of Engineering for Women

Place : Pune

Date : 27 05 23

2

CCOEW, Department of Computer Engineering, 2022-23



This is to certify that the project report entitles "COMPARATIVE ANALYSIS OF DIFFERENT PREDICTIVE MODELS FOR FOULING FACTOR PREDICTION IN HEAT EXCHANGER"

Submitted by

STUDENT NAME	Exam No
AKHILA NORI	C22019221306
ANKITA CHANDAVALE	C22019221322
GAYATRI CHAUDHARI	C22019221323
PRIYANKA DAHIKAMBLE	C22019221329

Is a bonafide student of this institute and the work has been carried out by her under the supervision of **Dr. Supriya Kelkar** and it is approved for the partial fulfilment of the requirement of Cummins college of engineering for women, karvenagar, pune (an autonomous institute affiliated to savitribai phule pune university.),

For the award of the degree of Bachelor of Technology (Computer Engineering).

(Dr S.M.Kelkar) Head, Guide Department of Computer Engineering Department of Computer Engineering (Dr M.B. Khambete) Director, Cummins College of engineering for women

Place Pune Date

CCOEW, Department of Computer Engineering 2022-23



CERTIFICATE

TO WHOMSEVER IT MAY CONCERN.

This is to certify that Ms. Janhvi Bhangalewho is a student atCummins College of Engineering hasattended an Internship Program TEIM from 1st Sept-22 to 30th May-23.

During this internship, she was involved in the project titled "Image piracy detection over platforms like Instagram and Facebook."

During the internship she demonstrated good skills with self-motivated attitude to learn new

things. Her performance exceeded expectations and was able to complete the project.

successfully on time. We wish Ms. Janhvi Bhangaleall the best in her future career.

For TEIM, Pune

Vishal Goswami

Director

Company Confidential

Page1 1



CERTIFICATE

TO WHOMSEVER IT MAY CONCERN.

This is to certify that Ms. Anushka Shrivastavawho is a student atCummins College of Engineering hasattended an Internship Program TEIM from 1st Sept-22 to 30th May-23.

During this internship, she was involved in the project titled "Image piracy detection over platforms like Instagram and Facebook."

During the internship she demonstrated good skills with self-motivated attitude to learn new

things. Her performance exceeded expectations and was able to complete the project.

successfully on time. We wish Anushka Shrivastavaall the best in her future career.

For TEIM, Pune

Vishal Goswami

Director

Company Confidential

Page1|1



CERTIFICATE

TO WHOMSEVER IT MAY CONCERN.

This is to certify that Ms. Anshika Dubey who is a student atCummins College of Engineering hasattended an internship Program TEIM from 1st Sept-22 to 30th May-23.

During this internship, she was involved in the project titled "Image piracy detection over platforms like Instagram and Facebook."

During the internship she demonstrated good skills with self-motivated attitude to learn new

things. Her performance exceeded expectations and was able to complete the project.

successfully on time.We wish Ms. Anshika Dubey all the best in her future career.

For TEIM, Pune

 OE_{4}

Vishal Goswami

Director

Company Confidential

Page1|1



CERTIFICATE

TO WHOMSEVER IT MAY CONCERN.

This is to certify that Ms. Aastha Agrawalwho is a student atCummins College of Engineering hasattended an Internship Program TEIM from 1st Sept-22 to 30th May-23.

During this internship, she was involved in the project titled "Image piracy detection over platforms like Instagram and Facebook."

During the internship she demonstrated good skills with self-motivated attitude to learn new

things. Her performance exceeded expectations and was able to complete the project.

successfully on time.We wish Ms. Aastha Agrawalall the best in her future career.

For TEIM, Pune

Vishal Goswami

Director

Company Confidential

Page1 | 1

This is to certify that the project report entitles

Developing a personalized memory application.

Submitted by

Sharvari Sonkusare Swarali Totade Apurva Sonawane

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Pranjali Deshpande** and it is approved for the partial fulfillment of the requirement of Cummins college of engineering for women, karvenagar, pune (an autonomous institute affiliated to savitribai phule pune university.),

for the award of the degree of Bachelor of Technology (Computer Engineering).

(Prof. Pranjali Deshpande) Guide (Dr. Supriya Kelkar)

Department of Computer Engineering

Department of Computer Engineering

(Dr. M. B. Khambete)

Principal, Cummins College of Engineering for Women Pune - 52

02 D. I Map

Place Pune

CCEW, Department of Computer Engineering 2022-23



This is to certify that the project report entitled

*PREDICTIVE AND PRESCRIPTIVE MAINTAINANCE OF WINDPOWER GENERATION SYSTEM"

Submitted by

STUDENT NAME : Purva Patil Tejashree Patil Shivani Yogi Siddhi Zawar CNUM: C22019221425(4425) C22019221429(4429) C22019221473(4470) C22019221474(4471)

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Simantinee Kulkarni** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Technology** (Computer Engineering).

(Prof. Simantinee Kulkarni) Guide Department of Computer Engineering

(Dr. Supriya Kelkar) Head, Department of Computer Engineering

External Guid

(Dr. M. B. Khambete) Principal, Cummins College of Engineering for Women Pune - 52

Place : Pune

Date: 2#/05/23

CCEW, Department of Computer Engineering 2022-23



Dnyano Solutions Pvt. Ltd.

"Pure Langelow" 25/3, 117, Kermaneer Society, Off Sk Ruad, Model Colony, Shinaphagar, Pune: 421016

Date: 82/91/3821

Ref. No.:013022/01

x

TO WHOMSOEVER IT MAY CONSORN

This is to inform you that Following Students are working with Deyano Solutions Private Limited with our IT unit Deyano Global IT Solutions (DGITS) on the sponsored project for a period of six months from 10th October 2022 to 11th April 2023.

Project Name Linkcode – LMS System Video Fortal. Role of Developer: Java full Stack – Trainee (Core Java, Advance Java J2EE, Spring Framework)

Team Details 1) Chinmayi Adsul 2) Roshari Bhojane 3) Akansha Dhage

4) Aditi D

Sponsored Project Company Details

Company Name: LinkCode Technologies Pyt Lid Address: JM Road Pane Contact Person: Mr. Rahul Ahire Designation: Director Contact Number: 9604 430 489

Thanking you

Southerd

Mrs. Smits Jadhav Business Head

dnyano

Deyano Solutions Pvt. Ltd. www.dnyano.in #9173 415 614

Dryano Solutions Pet Ltd. Confidential & Internal Line only wave dryans in

CCOEW, Department of Computer Engineering 2022-23

3



This is to certify that the project report entitled

"DEVELOP A WEARABLE DEVICE TO MONITOR HEALTH PARAMETER OF CYCLIST AND DEVELOP A MOBILE APPLICATION"

Submitted by

HARSHADA CHAVAN SAMPADA JOSHI POORVA DARADE ISHA NIKAM C22019221326 (4323) C22019221358 (4354) C22019881914 (4914) C22019881941 (4941)

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Varsha Pimprale** and it is approved for the partial fulfilment of the requirement of

Cummins College of Engineering for Women, Karvenagar, Pune, (An autonomous institute affiliated to Savitribai Phule Pune University.), for the award of the degree of Bachelor of Technology (Computer Engineering)

(Prof. Varsha Pimprale) Guide Department of Computer Engineering

(Dr. M. B. Khambete) Director, CCOEW Pune - 52

(Dr. Supriya Kelkar) Head, Department of Computer Engineering

Place: Pune

Date: 27/05/2023

CCOEW, Department of Computer Engineering 2022-23

2

This is to certify that the project report entitled

"ROAD POTHOLE & DRIVER DROWSINESS"

Submitted by

NEHA BHANDARI C22020882902 PRATIKSHA BHISE C22020882903 ASHWINI BIRADAR C22020882904

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Mrs. Nutan Deshmukh** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor** of **Computer Engineering**.

annut

Was

Prof.Mrs.Nutan Deshmukh

Internal Scaring (Dr. Supriya Kelkar)

Department of Computer Engineering Engineering Department of Computer

(Dr. M. B. Khambete) Principal, Cummins College of Engineering for Women Pune – 52

Place Pune Date :27/05/2023



This is to certify that the project report entitled

"DISEASE PREDICTION USING IOT AND MACHINE LEARNING "

Submitted by

Laddha Astha Anil	C22019221405	4405
Londhe Anisha Prakash	C22019221407	4407
Patil Neha Prakash	C22019221424	4424
Walvekar Rutuja Ravindra	C22019221472	4469

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Mrs**. Meenal Kamlakar and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of Bachelor of Technology (Computer Engineering).

(Prof.-Meenal Ramlakar) Guide Department of Computer Engineering

(Dr. Supriya Kelkar)

Head, J Department of Computer Engineering

13Kmin

(Dr. M. B. Khambete) Director, Cummins College of Engineering for Women.

Place : Pune Date :

CCOEW, Department of Computer Engineering 2022-23



This is to certify that the project report entitled

"CYBERBULLYING DETECTION IN NETWORKING PLATFORMS FOR TEENAGERS AND YOUNG ADULTS"

Submitted by

Anandita Rathore	C22019221307(4304)	
Sakshi Khanapure	C22019221367(4362)	
Arundhati Korlahalli	C22019221370(4365)	
Brishti Basu	C22020222302(4373)	

is a bonafide student of this institute and the work has been carried out by her under the supervision of Prof. Shilps Deshpande and it is approved for the partial fulfillment of the requirement of Cummins college of engineering for women,

karvenagar, pune

(an autonomous institute affiliated to savitribaiphulepune university.),

for the award of the degree of Bachelor of Technology (Computer Engineering).

Dr. Shilpa Deshpande Guide

Department of Computer Engineering

Dr. Supriya Kelkar Head, Department of Computer

Dr. M. B. Khambete Principal, Cummins College of Engineering for Women Pune - 52

Place: Pune Date: 20 anuary 2023

CCOEW, Department of Computer Engineering 2022-2023



This is to certify that the project report entitled

SALES RECOMMENDATION FOR EFFECTIVE CUSTOMER ENGAGEMENT

Submitted by

RUCHITA BHANGIRE	C22019221321
SNEHA CHALAKE	C22019221313
RUCHA CHAVAN	C22019221327
SHRUTI DESHMUKH	C22019221335

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Nilofer Kittad** and it is approved for the partial fulfillment of the requirement of Cummins College of Engineering for Women, Karvenagar, Pune

(an autonomous institute affiliated to Savitribai Phule Pune University) for the award of the degree of Bachelor of Computer Engineering. (Computer Engineering)

Prof. Nilofer Kittad Guide Department of Computer Engineering

Dr. Supriya Kelkar Head, Department of Computer Engineering

(Dr. M. B. Khambete) Principal, Cummins College of Engineering for Women Pune - 52

Dr. D.T. Mar

Place : Pune

Date:

"CCEW, DEPARTMENT OF COMPUTER ENGINEERING 2022-23"



This is to certify that the project report entitled

"PREDICTIVE MAINTENANCE OF MACHINES"

Submitted by

PRIYANKA SARAF SHRUTI SHARMA NEHA SHIRWADKAR CNUM: C22019221442 CNUM: C22019221445 CNUM: C22019221448 ROLL NO: 4442 ROLL NO: 4445 ROLL NO: 4447

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. A. N. Muchrikar** and it is approved for the partial fulfillment of the requirement of cummins college of engineering for women, karvenagar, Pune(an autonomous institute affiliated to Savitribai Phule Pune university), for the award of the degree of **Bachelor of Technology (Computer Engineering).**

(Prof. A. N. Muchrikar)

Guide, Department of Computer Engineering

(Dr. Supriya Kelkar) Head, Department of Computer Engineering

(Dr. M. B, Khambete) Principal, Cummins College of Engineering for Women

Place : Pune Date : 29 | 5 [23

CCOEW, Department of Computer Engineering 2019-2020



This is to certify that the project report entitled

"IDITRI-AN E-COMMERCE WEB APPLICATION"

Submitted by

NIKITA SHETE	ROLL NO: 4956
ANAGHA SHINDE	ROLL NO 4957
SRUSHTI THAKRE	ROLL NO 4961
SAKSHI WALWADKAR	ROLL NO: 4963

are the bonafide students of this institute and the work has been carried out by them under the supervision of **Prof. Sakshi Mandke** and it is approved for the partial fulfilment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Computer Engineering**.

Schndre

Prof. Sakshi Mandke

Project Guide Engineering Elennel Examine

12023

Dr. Supriya Kelkar

Head of Department Computer

Dr. M. B. Khambete Principal Cummins College of Engineering for Women, Pune – 52

Place: Pune

Date:

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This is to certify that the project report entitled

"ROBOTIC MONITORING AND MAINTENANCE"

Submitted by

STUDENT NAME: Mitali Ramugade Payal Raut Samruddhi Raut Shiyani Mohankumar Exam No.: C22019221433 C22019221435 C22019221436 C22019221436

is a bonafide student of this institute and the work has been carried out by her under the supervision of Prof. Dr. Chhaya Gosavi and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of Bachelor of Computer Engineering.

Prof. Dr. Chilaya Gosavi Guide

Department of Computer Engineering

Dr. Supriya Kelkar Head of Department Department of Computer Engineering

(Dr. M. B. Khambete) Principal, Cummins College of Engineering for Women Pune - 52

Place: Pune Date:

"CCEW, Department of Computer Engineering 2022-23"

2



This is to certify that the project report entitled

GENERATING PHASES OF SCLP - AUTOMATIC CONSTRUCTION OF AN ASSEMBLY GENERATOR FROM SPECIFICATIONS

Submitted by

HARDIKI SONCHHATRA KHUSHBU BORA SUDHA CHINTAKE SHRIHARSHA DHOBE

CNUM: C22019221314 - 4311 CNUM: C22019221319 - 4316 CNUM: C22019221328 - 4325 CNUM: C22019221328 - 4325

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Dr. Chhaya Gosavi and Prof. Sharayu Mirasdar** and it is approved for the partial fulfilment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Computer Engineering**.

(Dr. Chhava Gosavi)

ADS.

Guide Department of Computer Engineering (Dr. Supriya Kelkar) Head Department of Computer Engineering

(Dr. M. B. Khambete) Principal

Cummins College of Engineering for Women, Pune - 52

Place: Pune Date:

ci col W. Department of Computer Logiteering 2022-2023-

This is to certify that the project report entitles

"FASHIONENZA - VIRTUAL DRESSING ROOM"

Submitted by

STUDENT NAME	CNUM
SWIKRUTI MAIND	C22019881933
VINAVA PATH.	C22019881944
CHETANA NAGARE	C220198819338

is a bonafide student of this institute and the work has been carried out by her under the supervision of Dr. Madhuri Tasgaonkar and it is approved for the partial fulfillment of the requirement of Cummins College of Engineering for Women, Karvenagar, Pune (an autonomous institute affiliated to savitribai phule pune university.), for the award of the degree of Bachelor of Technology (Computer Engineering)

(Dr. Madhuri Tasgaonkar) Guide,

(Dr. S. M. Kelkar) Head.

Department of Computer Engineering

Department of Computer Engineering

(Dr M B Khambele) Director.

Cummins College of engineering for women

Place Pune

いたいかいいろんないないないのである

Date 29/05/2023



This is to certify that the project report entitled

"CREATE AN INTEGRATED DASHBOARD USING GOOGLE ANALYTICS AND CRM DATA FOR ENGINEERING ADMISSION DATA"

Submitted by

STUDENT NAME - SNEHAL BAVISKAR YUKTA BUKKAWAR SHRIYA KAGE PALLAVI SATPUTE CNUM : C22019881909 (4909) C22019881912 (4912) C22019881928 (4928) C22019881952(4952)

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Dr. Anjali Naik** and it is approved for the partial fulfillment of the requirement college of engineering for women. Karve Nagar, Pune(an autonomous institute affiliated to Savitribai Phule Pune University.).

for the award of the degree of Bachelor of Technology (Computer Engineering)

(Dr. Anjali Naik) Guide

Department of Contputer En

Dr. S. M Kelkar)

Head, Department of Computer Engineering

(Dr. M.B. Khambete) Director,

Cummins college of engineering for Women

Place : Pune Date : 27 May 2023



This is to certify that the project report entitled

IOT BASED AUTOMATION OF THE PREBUILT SOLAR DESALINATION SYSTEM

Submitted by

KETAKI KSHIRSAGAR	C22019221373
AKANKSHA KULKARNI	C22019221375
JUI KARKHELE	C22019221365
DIVYA GAJARE	C22019221342

are bonafide students of this institute and the work has been carried out by them under the supervision of **Prof. Nutan Deshmukh** ands it is approved for the partial fulfilment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Computer Engineering**

Inout

Prof. Nutan Deshmitkh Guide Dept. of Computer Engineering

Dr. Supriva Kelkar

Head.

Dept. of Computer Engineering

B. Khambete

Principal,

Cummins College of Engineering for Women, Pune -52

Place Pune Date: 17/5/23

Extend in an



This is to certify that the project report entitled

WEBSITE DEVELOPMENT AND DEPLOYMENT FOR ACCESS POINT INDIA PVT-LTD

Submitted by

APARNA LULEKAR

RITIKA SACHIN PANDE

SAKSHI RATHI

C22019881932 (4932) C22019881943(4943)

C22019881948(4948)

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. S.P.** Mengale and it is approved for the partial fulfillment of the requirement of cummins college of engineering for women, karve nagar, pune (an autonomous institute affiliated to Savitribai Phule pune university.), for the award of the degree of **Bachelor of Technology (Computer Engineering)**.

Prof. S.P. Mengale (Guide) Department of Computer Engineering

Hend.

Department of Computer Engineering

(Dr. M.B. Khambete) Director, Cummins College of Engineering for Women

Place: Pune Date: 26/05/2023



This is to certify that the project report entitled

"SMART HEALTHCARE SYSTEM USING WEB3.0"

Submitted by

KOMAL SALUJA	C22019221369:	4364
ADITI RAMDAS KAWALE	C22019221366 :	4361
VAISHNAV MANSING HOLKAR	C22019221349:	4346

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Aparna Hajare and Prof. Sharayu Mirasdar** and it is approved for the partial fulfillment of the requirement of Cummins College of Engineering for Women, Karvenagar, Pune (an autonomous institute affiliated to savitribai phule pune university.), for the award of the degree of Bachelor of Technology (Computer Engineering).

(Prof.Aparna Hajare) Guide

Department of Computer Engineering (Prof. Sharayu Mirasdar) Guide Department of Computer Engineering

(Dr. Supriva Kelkar)

Head, Department of Computer Engineering ٦

Khambete) Principal,

Cummins College of Engineering for Women Pune - 52

Place : Pune Date :



This is to certify that the project report entitled

"ENHANCING LEARNING EXPERIENCE IN STEM EDUCATION USING AR "

Submitted by

STUDENT NAME: SHRUTI PRABHU

SAKSHI SHIVNIKAR

SUKANYA SOLASE

is a benafide student of this institute and the work has been carried out by her under the supervision of Prof. Madhuri Tasgaonkar and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pure University, for the award of the degree of Bachelor of Computer Engineering,

na

(Prof. Madhuri Tasgaonkar)

Guide

(Dr. Supriya Kelkar)

Exam No: C22019221431

C22019221451

C22019221455

1000

Head,

Department of Computer Engineering Department of Computer Engineering

(Dr. M. B. Khambete)

Principal,

Cummins College of Engineering for Women Pune - 52

Place : Pune

Date: 27/05/23



This is to certify that the project report entitled

"INCOME AND EXPENSE TRACKER - MONEYWISE"

Submitted by

ISHA SHIVALKAR	CNUM: C22019221449 (4448)
NEHA AMBRE	CNUM: C22019881903 (4903)
RUTUJA PATIL	CNUM: C22019221426 (4426)
TEJAL KHEDEKAR	CNUM: C22019221368 (4363)

is a bonafide student of this institute and the work has been carried out by her

under the supervision of Prof. Rakhi Dongaonkar and it is approved for the partial

fulfillment of the requirement of cummins college of engineering for women,

karvenagar, pune

(an autonomous institute affiliated to savitribai phule pune university.)

for the award of the degree of Bachelor of Technology (Computer Engineering)

(Prof. Rathi Dongaonkar) Guide Department of Computer Engineering

(Dr. Supriya Kelkar) Head, Department of Computer Engineering

(Dr. M. B. Khambete)

Principal.

Cummins College of Engineering for Women Pune - 52

Place Pune

Date

CCOEW, Department of Computer Engineering 2022-2023

Ħ



This is to certify that the project report entitles

" AUTISTE: AN APPLICATION FOR AUTISM PREDICTION"

Submitted by

VAISHNAVI BORSE	C22020882905	4970
PIYUSHA DHAVALE	C22020882906	4971
RAMA GHODKE	C22020882907	4972

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Dr. Neeta Maitre** and it is approved for the partial fulfillment of the requirement of Cummins College of Engineering for Women, Karvenagar, Pune (an autonomous institute affiliated to Savitribai Phule Pune University), for the award of the degree of **Bachelor of Technology** (Computer Engineering).

(Dr. Neeta Maitre) Guide

(Dr. S. M. Kelkar)

Head,

Department of Computer Engineering

Department of Computer Engineering

M.B. Khambete

Principal

Cummins College of Engineering for Women

Sonenyal

Name and Signature of External Examiner

Place: Pune Date:27/05/2023



This is to certify that the project report entitled

"MONITORING OPERATIONAL SERVICES FOR ECOMMERCE WEBSITE"

Submitted by

VAISHNAVI SHIRPURKAR SHRUTI BHONDEKAR SURABHI THAKUR

C NO: C22020222405 (ROLL NO. 4477) C NO: C22020222406 (ROLL NO. 4478) C NO: C22020222407 (ROLL NO. 4479)

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Dr. Sushila Shelke** and it is approved for the partial fulfillment of the requirement of cummins college of engineering for women, karvenagar, pune (an autonomous institute affiliated to savitribai phule pune university),, for the award of the degree of **Bachelor of Technology** (Computer Engineering).

(Dr. Sushila Shelke) Guide. Department of Computer Engineering

(Dr. Supriya Kelkar) Head,

Department of Computer Engineering

(Dr. M. B. Khambete) Principal. Cummins College of Engineering for Women Pune - 52

Place: Pune Date: 27/05/2023

CCOEW, Department of Computer Engineering 2022-23

ü



This is to certify that the project report entitled

"SENTIMENT ANALYSIS OF CUSTOMER REVIEWS"

Submitted by

MANSI LINGARKAR AVANTI NARHE VAISHALI NEWALE NAMRATA RANKHAMB C22019221406 (4406) C22019221417 (4417) C22019221419 (4419) C22019221434 (4434)

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Mrs. Sandhya Arora** and it is approved for the panial tultifiment of the requirement of Savitribai Phule Pane University, for the award of the degree of **Bachelor of Computer Engineering**.

Sand

(Prof. Dr. Sandhya Arora) Guide . Department of Computer Engineering

(Dr. Supriya Kelkar) Head, Department of Computer Engineering

(Dr. M. B. Khambete)

Principal, Cummins College of Engineering for Women Pune – 52

Place Pune

Date :



This is to certify that the project report entitled

sign shift-an extension to hindi language

Submitted by

Anjali Nagwani Juhi Rajesh Ganvir Riddhi Nandkumar Kalate Vaishnavi Sinha

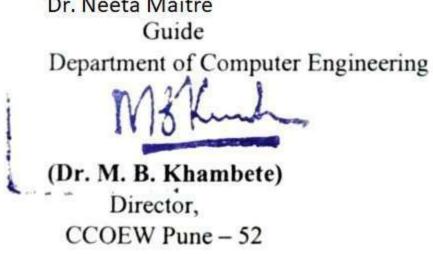
is a bonafide student of this institute and the work has been carried out by her under the supervision of Prof. Neeta Maitre and it is approved for the partial fulfilment of the requirement of

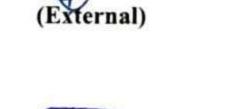
Cummins College of Engineering for Women, Karvenagar, Pune, (An autonomous institute affiliated to Savitribai Phule Pune University.), for the award of the degree of Bachelor of Technology (Computer Engineering)

Du Masta Maitus

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Deine







Place: Pune

Date: 27/05/2023



This is to certify that the project report entitles "PlantEasy : PLANT CARE AND SHOPPING APPLICATION"

Submitted by

STUDENT NAME	Exam No.
RASHMI GAJBHIYE	C22019881920
MANDIRA SAMJISKAR	C22019881951
RUTUJA SOMANI	C22019881959

Is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Aparna Hajare** and it is approved for the partial fulfilment of the requirement of Cummins college of engineering for women, karvenagar, pune (an autonomous institute affiliated to savitribai phule pune university.),

For the award of the degree of Bachelor of Technology (Computer Engineering).

(Prof. Aperana Hajare)

(Dr. S. M. Kelkar)

Guide

Department of Computer Engineering

Head, Department of Computer Engineering

- open and or comparer Engineers

(Dr. M.B. Khambete) Director, Cummins College of engineering for women

Place: Pune Date - 27 /05/23

jkml.



This is to certify that the project report entitled

ERP SYSTEM FOR CIVIL CONTRACTORS

Submitted by

SAMRUDHI BHANGE SAYALI CHAUDHARI DURGA PANDHARKAR

C22020222301(4372) C22020222303(4374) C22020222308(4379)

is a bonafide student of this institute and the work has been carried out by her under the supervision of Prof. Jyoti Bangare and it is approved for the partial fulfillment of the requirement of cummins college of engineering for women, karvenagar, pune (an autonomous institute affiliated to savitribai phule pune university.), for the award of the degree of Bachelor of Technology (Computer Engineering).

Prof. Jyoti Bangare

Guide Department of Computer Engineering

Dr. Supriya Kelkar

Head, Department of Computer Engineering

Khambete Dr. M.

External

Director, Cummins College of Engineering for Women Pune – 52

Place : Pune

Date: 27/05/2023



This is to certify that the project report entitled

"ONLINE ASSESMENT SYSTEM"

Submitted by

SAKSHI GIRI	ROLL NO 4922
PRATIKSHA JAGTAP	ROLL NO 4925
VANSHIKA NEMANNIWAR	ROLL NO 4940
NEHA RATHOD	ROLL NO 4949

are the bonafide students of this institute and the work has been carried out by them under the supervision of **Prof. MEENAL KAMALAKAR** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Computer Engineering**.

Prof. MEENAL KAMALAKAR

Project Guide

ADS

Dr. Supriya Kelkar

Head of Department Computer Engineering

Dr. M. B. Khambete Principal Cummins College of Engineering for Women ,Pune – 52

Place Pune

Date



This is to certify that the project report entitles

PREVENTION OF DUPLICATION OF QR CODES OVER ANOTHER BLOCKCHAIN NETWORK

Submitted by

MRINMAYEE MALI SURABHI PARDESHI SUDESHNA PATIL RISHIKA JAIN

C22019221409 4409 C22019221421 4421 C22019221428 4428 C22019221437 4437

are bonafide student of this institute and the work has been carried out by her under the supervision of Prof. Varsha Pimprale and it is approved for the partial fulfilment of the requirement of

Cummins college of engineering for women, karvenagar, Pune (an autonomous institute affiliated to Savitribai Phule Pune university.), for the award of the degree of Bachelor of Technology (Computer Engineering).

e

Prof. Varsha Pimprale Guide Department of Computer Engineering

Examiner

Dt. Sustiva Kelkar

Head Department of Computer Engineering

Dr. Mrs. M, B. Khumbete Principal Cummins College of Engineering for Women Pune - 52

Place: Pune

Date: 27¹¹⁸ May 2023

CCEW, Department of Computer Engineering 2022-23

2



This is to certify that the project report entitled

MUSIC RECOMMENDATION AND RECOGNITION FOR MUSIC APPLICATION

SUBMITTED BY

RUTUJA BHOSALE JYOTI BOMBLE HARSHADA GIRI

C22019221317 C22019221318 C22019221346

is a Bonafide student of this institute and the work has been carried out by her under the supervision of **Dr.Mahendra Deore** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of Bachelor of Computer Engineering.

Jeal

-Dr.Mahendra Deore Guide Department of Computer Envincerir

(Dr. Supriya Kelkar) Head

Department of Computer Engineering Department of Computer Engineering

(Dr. N. B. Khambete)

Principal Cummins College of Engineering for Women Pune – 52

Place : Pune

Date :



This is to certify that the project report entitles

"FOOD SYSTEMS ECOMMERCE SYSTEM"

Submitted by

NIKITA KULKARNI	C22019221403	4403
GOURI LONKAR	C22019221408	4408
KINJEL MUTHA	C22019221416	4416
SAKSHI RAJPUT	C22019221432	4432

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Simantinee Kulkarni** and it is approved for the partial fulfilment of the requirement of Cummins College of Engineering for Women, Karvenagar, Pune

(an autonomous institute affiliated to savitribai phule pune university),

for the award of the degree of Bachelor of Technology (Computer Engineering).

for- pearly

Prof. Simantinee Kulkarni Guide Department of Computer Engineering

Dr. S. M. Kelkar / Head Dgpartment of Computer Engineering

External Examina

Dr. M.B. Khambete Director, Cummins College of Engineering for Women

Place: Pune

Date:



This is to certify that the project report entitles "AUTOMATIC ONLINE CUSTOMER RETENTION SYSTEM

USING ML TECHNIQUES"

Submitted by

FIZA SHAIKH DURVA TARALE SONIYA DUDHMANDE

C22019881954 C22020882909 C22019881954

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Hitendra Khairnar** and it is approved for the partial fulfillment of the requirement of Cummins college of engineering for women,karve nagar.pune(an autonomous institute affiliated to savitriba) phule pune university.),for the award of the degree of Bachelor of Technology (Computer Engineering).

KINONE

(Hitendra S. Khairnar)

Guide

Department of Computer Engineering

(Dr. Supriya Kelkar

Head

Department of Computer Engineering

(Dr. M. B. Khambete)

Director,

Cummins College of Engineering for Women

Place : Pune Date : 24/5/23



This is to certify that the project report entitles

MEDURANCE : HEALTH INSURANCE COST PREDICTION USING MACHINE LEARNING

Submitted by

PRANAVI GAWADE NISARGA KHATKALE SHIVANI LALGE

C22019881921 (4921) C22019881929 (4929) C22019881931 (4931)

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Sharayu Mirasdar and Prof.Dr.Madhuri Tasgaonkar** and it is approved for the partial fulfillment of the requirement of

> cummins college of engineering for women, karvenagar, pune (an autonomous institute affiliated to savitribai phule pune university.)

for the award of the degree of Bachelor of Technology (Computer Engineering).

Hisard

(Prof. Sharayu Mirasdar) Guide Department of Computer Engineering

(Dr. S. M. Kelkar) j Head, Department of Computer Engineering

NN

(Prof. Dr.Madhuri Tasgaonkar) Guide Department of Computer Engineering

(Dr. M.B. Khambete) Director, cummins college of engineering for women

Place : Pune

Date: 27 05 2023



This is to certify that the project report entitled

"SPOKEN LANGUAGE IDENTIFICATION USING AI TECHNIQUES"

Submitted by

STUDENT NAME :	EXAM NO :
1) SHIVANI JOSHI	4355
2) SHRUTI INGOLE	4349
3) SRUSHTI EKMODE	4336

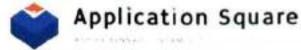
is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Nilofer Kittad** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Computer Engineering**.

(Prof. Nilofer Kittad) (Dr.SupriyaKelkar) Guide Head of Department of Computer Engineering Department Computer Engineering

(Dr. M. B. Khambete) Principal, Cummins College of Engineering for Women Pune - 52

na los pars

Place : PuneDate:3/1/23



OFFICE ADD: 2ND Floor Sadashiv Motkan Complex, opp sagar sweet near jogging track, givind nagar. untwadd road, Nashik 422009 Phone: 7720086663/0. Email: untudkapplicationsquare.com

CIN - U72900MH2015PTC261723

4th Nov 2022

To,

Sir/Madam Principle,

MKSSS CUMMINS COLLEGE OF ENGINEERING

FOR WOMEN PUNE.

Subject - Sponsorship letter for College Project.

Dear Sir/Madam Principle.

We are pleased to inform you about your Student selection in our organization for the Acadamic collage Project sponsorship. During the Project development stage will be helping them to understand the process and workflow of projects and technology awareness, we will be providing them Hybrid mobile app development (angular, PHP, sonic). Project which one cultomer requirement needs to be developed. Kindly return a copy of this letter with your full ugnature in token of your formal acceptance of the terms and conditions of employment with us. We take this opportunity to welcome you into our organization and look to a very hurtful association with you.

Student Name - 1) Ishita Bhadekar 2) Sakshi Bhimaji Hile 3) Preana Rangnath Kokana

Best of Luck !!!

Yours Sincerely,



Mr. Yogesh Aher

Director



Registered Office Address - 32, Amrut Nagar, Opp. Cytric, Jal Road NashikRoad Nashik 422101



This is to certify that the project report entitled

"SONG RECOMMENDATION SYSTEM BASED ON EMOTION"

SUBMITTED BY

STUDENT NAME	ROLL NO.	
ANUSHKA DESHMUKH	C22019881915	
NEHA WAGHMARE	C22019881962	
RUTUJA RASKAR	C22019881947	
SACHITA MANE	C22020222307	

is a bonafide student of this institute and the work has been carried out by her under the supervision of Prof. Pranjali Despande and Prof. Sulakshana Nagpurkar and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of Bachelor of Computer Engineering.

Prof. Pranjali Deshpande

Prof. Sulakshana Nagpurkar) Guide Department of Computer Engineering

(Dr. Supriya Kelkar)

Head. Department of Computer Engineering

urt Knumbete)

29 Inters

Dr. M Principle Cummins College of Engineering for Women, Pune-52

Place: Pune Date-29/05/23

CCOEW.DEPARTMENT OF COMPUTER ENGINEERING 2022-2023



This is to certify that the project report entitled

" The Traits Studio - Finding Personality Traits Based On Handwriting Analysis "

Submitted by

RAJSHREE JUMNAKE	C22019221360	4356
DISHA AGRAWAL	C22019881902	4902
SAKSHI MUTKULE	C22019881937	4937

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Prof. Dr. Sandhya Arora** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of Bachelor of Computer Engineering.

Quells

Prof. Dr. Sandhya Arora Guide, Department of Computer Engineering

Dr. Supriya M. Kelkar Head. Department of Computer Engineering

NIS!

Dr. M. B. Khambete Principal.

Cummins College of Engineering for Women Pune - 52

Place: Pune Date: April 05, 2023



This is to certify that the project report entitles

VOICE AND GESTURE BASED NAVIGATION FOR SHOPPING

Submitted By

Kshitija Gadade Vaishnavi Gadmade Pooja Giri Sonali Ingle Exam No: C22019221340 Exam No: C22019221341 Exam No: C22019221347 Exam No: C22019221351

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Dr. Sandhya Arora & Prof. Priya Deokar** and it is approved for the partial fulfillment of the requirement of Cummins College Of Engineering For Women, Karvenagar, Pune (an autonomous institute affiliated to Savitribai Phule Pune University.), for the award of the degree of **Bachelor of Technology** (Computer Engineering).

(Dr. Sandhya Arora & Prof.

(Dr. S. M. Kelkar)

Head,

Department of Computer Engineering

Guide Department of Computer Engineering

Priva Deokar)

(Dr.M.B.Khambete) Director, Cummins college of engineering for women

Place: Pune. Date: 27/05/2023

This is to certify that the project report entitled

"ANIMAL CARE"

Submitted by

SAKSHI ASHOK THAWAL C22019221463 VIKUSUNUO NATSO C22019221468 VIDHYA WAGHMARE C22019221470

is a bonafide student of this institute and the work has been carried out by her under the supervision of **Dr. Sushila Shelke & Prof. Ashwini Rajurkar** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of **Bachelor of Computer Engineering**.

Maharshi Karve Stree Shikshan Samstha's Cummins College of Engineering for Women, Pune (An autonomous Institute affiliated to Savitribai Phule Pune University) (Dr. Sushila Shelke) (Dr. Supriya Kelkar) (Prof. Aswhini Rajurkar) Head, Guide Department of Computer Engineering Department of Computer Engineering (Dr. M. B. Khambete) Principal, Cummins College of Engineering for Women Pune - 52 Place Pune Date : January 03,2023 CCEW, Department of Computer Engineering 2022 -23

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This is to certify that the project report entitled

Disaster Management System

Submitted by

Aarya Shinde Rucha Joshi

is a bonafide student of this institute and the work has been carried out by her under the supervision of itDr. S. M. Kelkar id it is approved for the partial fulfilment of the requirement of

Cummins College of Engineering for Women, Karvenagar, Pune, (An autonomous institute affiliated to Savitribai Phule Pune University.), for the award of the degree of Bachelor of Technology (Computer Engineering)

Dr. S. M. Kelkar (Guide Department of Computer Engineering

(Dr. M. B. Khambete) Director, CCOEW Pune - 52

(Dr. Supriya Kelkar) Head, Department of Computer Engineering

Place: Pune

Date: 27/05/2023



This is to certify that the project report entitled

"IOT BASED SOLAR ENERGY GENERATION AND UTILIZATION SYSTEM"

Submitted by

VAISHNAVI PHAD C220202222401 PREETI KUTWAL C22020222402 RACHANA REDDI C22020222403 ADITI SADAVARTE C22020222404

is a bonafide student of this institute and the work has been carried out by her under the supervision of Mrs. Nutan Deshmukh and Mrs. Ashwini Rajurkar and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the degree of Bachelor of Technology (Computer Engineering).

fromment

Mrs. Nutan Deshmukh External Examiner Mrs. Ashwini Rajurkar

Guide

Department of Computer Engg-

(Dr. Supriya Kelkar)

Head,

Department of Computer Engg.

(Dr. M. B. Khambete)

Principal,

Cummins College of Engineering for Women Pune - 52

Place : Pune

Date: 27 05 23



This is to certify that the project report entitled

AI BASED E-COMMERCE WEB APPLICATION FOR FILORA"

Submitted by

MANSI CHAUDHARI Exam No: C22019221324 RITHIKA HEBBAR Exam No: C22019221438 ANSHIKA UPADHYAY Exam No: C22019221309

are bonafide student of this institute and the work has been carried out by them under the supervision of **Prof. Prakash Date and Prof. Ashwini Rajurkar** and it is approved for the partial fulfillment of the requirement of Savitribai Phule Pune University, for the award of the

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Prof. Prakash Date

Guide

Department of Computer Engineering

Dr. Supriya Kelkar

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Dr. M. B. Khambete Principal,



This is to certify that the project report entitled "AI DRIVEN AUTISM SPECTRUM DISORDER DIAGNOSIS"

Submitted by,

C22019881913
C22019881927
C22019881936
C22019881960

is a bonafide student of this institute and the work has been carried out by her under the supervision of Dr. Anjali Naik and it is approved for the partial fulfillment of the requirement of Cummins College of Engineering for Women, Karvenagar, Pune (An autonomous institute affiliated to Savitribai Phule Pune University), for the award of the degree of Bachelor of Technology (Computer Engineering).

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MKSSS's Cummins College of Engineering for Women, Pune

Place: Pune Date: 27 05 2523