



- i. Name : Dr. Supriya Milind Kelkar
- ii. Date of Birth : 08 - 04 - 1968
- iii. Unique id : 1-430203540
- iv. Educational Qualifications : Ph.D.
- v. Work Experience :
- . Teaching : 27.5 Years
  - . Research : 11 Years
  - . Industry : 03 Years
  - . Others : Nil
- vi. Area of Specialization : IoT and Trust management systems, Fault diagnosis in distributed real-time systems, data compression algorithms for automotive distributed systems and real-time networks for industrial and automotive applications.
- vii. Courses taught :  
Under Graduate level : Fundamentals of Computer Networks, Computer Networks, Embedded Operating Systems, IoT, Operating System Design, Python Programming, Microprocessor and Microconrollers, etc.
- viii. Research guidance : Nil
- ix. Projects Carried out : Nil
- x. Patents : Nil
- xi. Technology Transfer : Nil

xii. Research Publications : 13

- .Published a paper in IEEE Transactions on Industrial Electronics titled “Adaptive Fault Diagnosis Algorithm for Controller Area Network”, volume-61, Issue-10 in October 2014.
- .Published a paper in IECON 2012 38th Annual conference on Industrial Electronics Montreal, Canada titled “Control Area Network based Quotient remainder compression algorithm for automotive applications” at Montreal, Canada in October 2012.
- .Published a paper in International Conference INDICON 2012 (IEEE) on “Comparison and Analysis of Quotient remainder compression algorithms for automotives” at Kochi, India, in December 2012.
- .Presented a paper in IEEE International Conference on Circuits, System, Communications and Information Technology applications (CSCITA), Mumbai titled “Implementation of Data Reduction Technique in adaptive Fault Diagnosis Algorithm for Bus based controller Area Network” in April 2014.
- .Presented a paper in IEEE International Conference on Circuits, System, Communications and Information Technology applications (CSCITA), Mumbai titled “Boundary of Fifteen Compression Algorithm for Controller Area Network based Automotive Applications” in April 2014.
- .Presented a paper in International Conference on Information, Communication, Instrumentation and Control - 2017 (ICICIC-`17) on “Leader based adaptive fault diagnosis algorithm for distributed system” at Indore, India, in August 2017.
- .Presented a paper in 6th International Conference on Advances in Computing, Communications and Informatics (ICACCI) -2017 on “Coordinator- based adaptive fault diagnosis algorithm for distributed computing systems” at Manipal Institute of Technology, India, in September-2017.
- .Presented a paper in International Conference on Advancement in Engineering, Applied Science and Management (ICAEASM-2017) on “An insight into performance and security bugs in IoT operating systems : A Literature Review” at C-DAC, (Mumbai) Centre for Development of Advanced Computing Mumbai, (India) in June 2017.
- .Presented paper in international conference on Advances in Electrical and Computer Technologies (ICAECT) 2019, on "Fault Diagnosis for Distributed Systems using Accuracy Technique," at Coimbatore, India, in April 2019.
- .Presented paper in International Conference on Electronics, Computing and Communication Technologies, CONECCT 2020, IEEE Bangalore Section, on “Mitigating IoT attacks in smart medical networks using enhanced dirichlet based algorithm for trust management system,” Bangalore, India in July 2020.

- .Presented paper in IEEE International Conference on Computing, Communication and Green Engineering (CCGE21), India, “Trust Evaluation and Cloud Service Recommendation System Based On Machine Learning Techniques,” 2021.
- .Published paper in Revista Geintec-Gestao Inovacao E Tecnologias Journal, Volume: 11, Issue No: 4, on “Gateway Based Trust Management System For Internet Of Things”, 2021.
- .Presented paper in national conference on Emerging Electronic and Computing Systems (NCEECs), on “Comparison of CAN, TTCAN, FlexRay and Their Suitability in Safety-Critical Applications,” at Indore, India, in April 2010.

xiii. No. of Books published with details : Nil



- i. Name : Dr. Sunita Abhay Jahirabadkar  
Dean (R & D)  
Professor (Dept of Computer Engineering)
- ii. Date of Birth : 28<sup>th</sup> December 1972
- iii. Unique id : 1-430203718
- iv. Educational Qualifications : Ph. D. (Computer Engineering)  
Google Scholar page - <https://scholar.google.com/citations?user=Cam8XEcAAAAJ&hl=en>
- v. Work Experience
- Teaching : 23 Years  
Research : 6.5 Years  
Industry : 03 Years  
Others : Nil

### Educational Qualification

Sr. No.	Qualification	Institute / University	Specialization	Completion / Class
1	Ph.D. (Computer Science & Engineering)	College of Engineering, Pune (COEP), Pune University	Data Analytics	June 2014
2	M.E.(Computer Engg.)	College of Engineering, Pune (COEP), Pune University	Computer Engineering	May-2002 First Class
3	B. E. (Computer Science & Engineering)	Govt. College of Engineering, Aurangabad	Computer Engineering	June 1994 Distinction ( <b>5th in University</b> )
4	<b>H. S. C.</b>	Maharashtra State Board, Aurangabad	1990	1 <sup>ST</sup> Class with Distinction

5	S. S. C.	Maharashtra State Board, Aurangabad	1988	Distinction (23 <sup>rd</sup> in Merit List)
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### Professional Experience :

#### Teaching - 24 Years, Industry - 2 Years

Sr. No.	Post and Organization	From	To
1	<b>Dean (Research &amp; Development)</b> Cummins College of Engineering for Women, Pune	22 May 2016	Till Date
2	<b>Professor (Dept of Computer Engineering)</b> Cummins College of Engineering for Women, Pune	21 July 2014	Till Date
3	<b>Asst. Professor (Dept of Computer Engineering)</b> Cummins College of Engineering for Women, Pune	01 Aug 2004	20 July 2014
4	<b>Lecturer (Dept of Computer Engineering)</b> Cummins College of Engineering for Women, Pune	01 Aug 1998	31 July 2004
5	<b>Lecturer</b> , Eklavya Polytechnic, Pune	11 Oct 1997	31 May 1998
6	<b>EDP In-charge</b> Greaves Morganite Crucible Ltd., Aurangabad	1 July 1994	30 Sept 1996

### Areas of Interest / Expertise

Data Analytics, Information Retrieval, Machine Learning, Artificial Intelligence, High Performance Computing, Intellectual property Rights

### Courses Taught

UG	Machine Learning, Data Mining and Data Warehousing, Intellectual property Rights, E-business, Organizational Behavior, Advanced Databases, Operating Systems, Database Management Systems, Software Engineering, Computer Organizations, Advanced Computer Architecture, project Management
PG	Advanced Databases, Intellectual property Rights, Research Methodologies
Ph.D.	Intellectual Property Rights

## Fundings

Sr. no.	Title	Status
1	Principal Investigator, Funded Research Project on “Fusion of Thermal and Optical Image Features in Classification of Space Objects to identify Debris using Deep Learning”. Sanctioned a grant of <b>Rs. 10.5 Lacs from ISRO (2021-23)</b>	Ongoing Project
2	Principal Investigator, Research project on “Handwritten Character Recognition using Density Based Clustering”. Grant received of <b>Rs. 80,000 from Pune University (2016-2019)</b>	Completed
3	Convener, State-level Faculty Development program (FDP) on “Internet of Things (IoT), Analytics, Computing techniques and Tools for Smart Cities” during 17-18 Feb 2017. Grant received : Rs. 65,000 from Pune University	Completed

## Intellectual property Rights (IPRs)

System And Method For Recognizing Handwritten Devanagari Characters	Patent Application No. 201821016520	Dated : 02/05/2018	Status : Published on 08-11-2019
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### **Affiliation as Ph.D. Research Guide**

1. Department of Technology, Savitribai Phule Pune University (2-students)
2. Smt. Kashibai Navale College of Engg, Pune (1-student)

### **Ph. D. Research Candidates (Ph. D. Research Scholar and Research work title)**

1. “Near duplicate video retrieval with improved accuracy”, Ms. Dhanashri Phalke, Dept. of Technology, Savitribai Phule Pune University (Registration : Aug 2019)
2. “Abstractive summariser for low resource language documents”, Ms. Pranjali deshpane, Dept. of Technology, Savitribai Phule Pune University (Registration : Aug 2019)
3. “Precision Agriculture in Indian Context for Effective Fertigation using Learning Techniques”, Mr. Bhagwan Thorat, Smt. Kashibai Navale College of Engg, Pune (Registration : March 2020)

### **Papers Presented / Published**

<b>Sr. No.</b>	<b>Title of Paper</b>	<b>Type of publication</b>	<b>Event type</b>	<b>Event Details</b>
1.	DiISC : Distributed Intelligent Subspace Clustering, A Density Based Clustering Approach for Very High Dim Distributed Data	International	Conference	First Inter. Conf. on "Networked Digital Technologies" (NDT2009), Pzeck Republic, 29-31 Jul 09
2.	ISC – Intelligent Subspace Clustering, A Density based Clustering approach for High Dim. Dataset	International	Conference	Waset – 09, Oslo, Norway, 29-31 Jul 2009
3.	DiSubCl : An Approach to Mine High Dimensional Distributed Data	National	Conference	Truba - National Conference on Business Technologies, Indore, 13-15 Mar 09
4	ISC – Intelligent Subspace Clustering, A Density based Clustering approach for High Dime. Dataset	National	Conference	IEEE Conference on “AI Tools” at Cummins College of Engg., Pune Mar- 08
5	Learning High Dimensional Distributed Data Using Hierarchical Subspace Clustering	International	Conference	4th Indian International Conf. on Artificial Intelligence (ICAI-09) December 16-18, 2009, Bangalore, India
6	Algorithm to determine e-	International	Journal	Elsevier's Expert Systems with

	distance parameter in density based clustering			Applications 41 (2014) 2939–2946
7	Clustering for High Dimensional Data: Density based Subspace Clustering Algorithms	International	Journal	International Journal of Computer Applications (0975 – 8887) Vol 63. Feb-2013
8	SCAF – An Effective Approach To Classify Subspace Clustering Algorithms	International	Journal	International Journal of Data Mining & Knowledge Management Process (IJDMP) Vol.3, No.2, March 2013
9	Finding and Visualizing Subspace Clusters of High Dimensional Dataset Using Advanced Star Coordinates	International	Conference	International Conference on Intelligent Computational Systems (ICICS'2012) Jan. 7-8, 2012 Dubai
10	GPU approach for Handwritten Devnagari document Binarization	International	Conference (Scopus Indexed)	IC4S-2017
11	Theory-guided Data Science for Climate Change	International	Conference (Scopus Indexed)	ICDIS-2017, Amarkantak, MP, India
12	A Systematic Review of Near Duplicate Video Retrieval Techniques	International	Journal (Scopus Indexed)	International Journal of Pure and Applied Mathematics, Volume 118 No. 24 2018
13	Handwritten Character Recognition using Data Mining Techniques, a Review	International	Journal (Scopus Indexed)	International Journal of Engineering & Technology
14	Space Objects Classification Techniques : A Survey	International	Conference (Scopus Indexed)	IEEE International Conference on Computational Performance Evaluation (ComPE-2020)
15	Text Summarization and Classification of Conversation Data Between Service Chatbot and Customer	International	Conference (Scopus Indexed)	4th World Conference on Smart Trends in Systems, Security & Sustainability (WorldS4 2020)
16	Content Based Near Duplicate Video Detection using Density Based Clustering : OR-DB-SCAN	International	Doctoral Symposium (Scopus Indexed)	DSNCR-2020 (First Doctoral symposium on Natural Computing Research)

17	A Survey on Near Duplicate Video Retrieval Using Deep Learning Techniques and Framework	International	IEEE Pune Section International Conference, 2020	2020 IEEE Pune Section International Conference (PuneCon) Vishwakarma Institute of Technology, Pune India. Dec 16-18, 2020
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### Books Published

Sr. No.	Title	Publisher	Publication details	Year of Publication	Co-authors
1	E-Business	Oxford University Press	ISBN-10:0198069847 ISBN-13:978-0198069843	May 2012	Dr. Parag Kulkarni Dr. P. K. Chande
2	Big Data Analytics	PHI	ISBN : 8120351169, 9788120351165	2016	Dr. Parag Kulkarni Dr. Sarang Joshi, Meta Brown et. al.

### Membership of Scientific and Professional Societies

Life Member (Computer Society of India)

Member IEEE (Digital Access)



**i. Name** : Dr Sandhya Arora  
**ii. Date of Birth** : 23/11/1974  
**iii. Unique id** : 1-1513008917  
**iv. Educational Qualifications** : BE, M.Tech., P.hD. (Computer Engg)

**v. Work Experience :**  
. Teaching : 24  
. Research : 4  
. Industry : 1  
. Others : NA

**vi. Area of Specialization :**  
Pattern Recognition, Soft Computing, Online Learning, Intelligent Tutoring System, Pattern Image processing, Machine Learning

**vii. Courses taught :**  
.Under Graduate level : Design and analysis of algorithms, Data structures, Statistics for computer science, Pattern Recognition, Machine Learning, Web Technology, Artificial intelligence, Object oriented programming, Principles of concurrent and distributed programming, Fundamentals of Programming languages

**viii. Research guidance** : **6 (ongoing)**

**ix. Projects Carried out** : **01**

BCUD Research funding project for “Handwritten Devnagari Character Recognition using DensityBased Clustering” during 2016-2019

**x. Patents** : **Published**

Patent on “System and method for recognizing handwritten devnagari characters “ published on **8th Nov 2019 issue**, application (No. 201821016520)

**xi. Technology Transfer** : NA

**xii. Research Publications** : **36**

- 1. "Random Forest and ARIMA model for Crime Prediction and Analysis)", Journal of Research in Computer Science and Engineering , Volume 5, Issue 2, ISSN: 2457-0818 (Online), ManTech Publication. Link is <http://mantechpublications.com/admin/index.php/JoCSE/issue/viewIssue/2739/3138>
- 2. "A Literature Review of Image Stylization Techniques" in International Journal of Advanced Science and Technology Vol 29 , No. 3 , (2020), pp. 14921–14930 ISSN:2005-4238. link is <http://sersc.org/journals/index.php/IJAST/article/view/31996>
- 3. "Identification of violent behaviour using handwriting", In International Journal of advanced trends in computer science and Engineering (IJATCSE), ISSN 2278-3091
- 4. "Diagnosis of Psychopathic Personality Disorder with Speech Patterns", Deepti Jain, Dr. Sandhya Arora, Dr. C.K.Jha, Third International Conference on Advanced Informatics for Computing Research (ICAICR-2019), springer CCIS series ISSN No. 1865-0929
- 5. "Survey of Different Approaches Used for Food Recognition ", In ICTCS 2017, 3<sup>rd</sup> International conference on Information and Communication Technology for Competitive Strategy, 16-17 Dec 2017, in association with ACM, CSI, IET and GR foundation Udaipur.
- 6. "GPU Approach for Handwritten Devnagari Document Binarization", In Springer's Advances in Intelligent systems and computing, ISSN 2194-5357 , Proceedings of ICSICCS 2017, Smart Innovations in Communication and Computational Sciences, pp 299-308, vol 670. Springer, Singapore, Print ISBN 978-981-10-8970-1 , Online ISBN 978-981-10-8971-8
- 7. "Recognition of Sign Language using Image Processing", *Int. J. of Business Intelligence and Data Mining 2018 - Vol. 13, No.1/2/3 pp.163 - 176*, Print ISSN: 1743-8187 Online ISSN: 1743-8195 Inderscience publication, IOR World Science Technology Congress, 23-24 September 2016, ISSN 1743-8187
- 8. "Studies on some Soft Computing Techniques: A Case Study for Constrained Handwritten Devnagari Characters and Numerals", International Journal of Scientific and Engineering Research (IJSER), Vol 4, issue 7, July 2013, ISSN 2229-5518.
- 9. "Complementary Features Combined in a MLP-based System to Recognize Handwritten Devnagari Character", Journal of Information Hiding and Multimedia Signal Processing (JIHMSP) ISSN (Print) 2073-4212 ISSN (Online) 2073-4239, Ubiquitous International, Volume 2, Number 1, pp 71-77, January 2011
- 10. "Handwritten Devnagari Numeral Recognition using SVM & ANN", International Journal of Computer Science and Emerging Technologies(IJCSET), ISSN(Online) 2044-6004: August 2010, Vol. 1, Issue 2
- 11. "Performance Comparison of SVM and ANN for Handwritten Devnagari Character Recognition", (IJCSI) International Journal of Computer Science Issues, Vol. 7, Issue 3, No. 6, May 2010, pp. 18-26, ISSN (Online): 1694-0784, ISSN (Print): 1694-0814
- 12. "Recognition of Non-Compound Handwritten devnagari characters using a combination of MLP and Minimum edit distance", International Journal of Computer Science and Security(IJCSS), ISSN(Online): 1985-1553, Jan 2010, Volume 4, Issue 1, pp. 107-120
- 13. "Study of different Features on Handwritten Devnagari Characters", in IEEE-International Conference on Emerging Trends in Engineering and Technology(ICETET-09), 16-18 Dec 2009, G.H. Rasoni college of Engineering, Nagpur, India
- 14. "Application of Statistical Features in Handwritten Devnagari Character Recognition", International Journal of Recent Trends in Engineering[IJRTTE], ISSN 1797-9617, IJRTE Nov 2009, Volume 2, No 2, pp. 40-42
- 15. "Combining Multiple Features Extraction Techniques for Handwritten Devnagari Character Recognition", in IEEE-Third International conference on Industrial and Information

Systems(ICIIS08), Dec 8th-10th 2008, IIT, Kharagpur, India

- .“*Multiple Classifier Combination for Offline Handwritten Devnagari Character Recognition*”, in IEEE Delhi Section -International conference on Soft Computing (ICSC-08) , Nov 8th-10th, IET, Alwar, Rajasthan, India
- .“*Fine Classification & Recognition of Hand Written Devnagari Characters with Regular Expressions & Minimum Edit Distance Method*”, in JOURNAL OF COMPUTERS (JCP) ISSN : 1796-203X Volume : 3 Issue : 5 Date : May 2008
- .“*A Two Stage Classification Approach for Handwritten Devnagari characters*”, in IEEE International Conference on Computational Intelligence and Multimedia Applications (ICCI 07), Sivkasi, Tamil Nadu, India, 13-15 Dec 2007.
- .“*Recognition of Hand Written Devnagari Characters with Percentage Component Regular Expression Matching and Classification Tree*” in ICIP 2007, University Visvesvaraya College of Engineering Bangalore, 10-13 August 2007
- .“*Handwritten Devnagari Character Recognition Using Connected Segments And Minimum Edit Distance*”, in TENCON 2007, Taipei, 30/10/2007-2/11/2007
- .“*A Novel Approach for Handwritten Devanagari Character Recognition*” in IEEE –International Conference on Signal And Image Processing, Hubli, Karnataka, Dec 7-9, 2006
- .“*Characterizing Hand Written Devnagari Charaters Using Regular Expressions*” IEEE TENCON 2006, November 14-17, 2006, Hong Kong
- .“*Classification of Gradient change Features using MLP for Handwritten character Recognition*” in International conference on Emerging Applications of Information Technology (EAIT-2006), CSI, IEEE sponsored, kolkata, Feb 10-11, 2006
- .“*Handwritten Character Recognition using Neural Networks and Histogram Band Analysis*” in 4th WSES International conferences, Journal publication, Tenerife, Spain, Dec 16-18,2005
- .“*Adaptive Learning Environment in an Intelligent Tutoring System*” in an National Seminar on “Revamping Technical Education to make IT synergistic with information Revolution” Amarvati, ISTE, Feb 4-5, 2005
- .“*Student Modeling in an Intelligent Tutoring System : Acharya*” in an International Conference on “New Challenges in Technology Education for HRD in Asia and Pacific Region [HRDAP 2004], organized by Colombo plan staff college, Manila Phillippines, Sept 20-21, 2004
- .“*A Web Based E-Learning System* “ in National conference on IT-Enabled Governance, CSI, kolkata, June 12-13, 2004
- . “*Acharya: An intelligent tutoring system for learning SQL*” for an International conference at NCST Mumbai, Vidyakash, Dec 2002
- .“*Artificial Intelligence in Education: Intelligent Tutoring System Vs Intelligent Agents*” in CSI communication, May 2002
- .Published a paper on “*Multimedia Database Management System : Requirements and Issues*” in CSI communication, January 2001
- .“*Autoscaling Techniques for Web Applications in the Cloud*”, Cloud Computing Technologies for Smart Agriculture and Healthcare, CRC Press, Taylor and Francis, pp 35-46, ISBN 9781032068039, Dec 2021
- .“*Sensor Applications in Agriculture–A Review*”, Cloud Computing Technologies for Smart Agriculture and Healthcare, CRC Press, Taylor and Francis, pp 59-73, ISBN 9781032068039, Dec 2021
- .“Convolutional Neural Network and Its Advances: Overview and Applications”, CRC Press book chapter, Computing Technologies and Applications: Paving Path Towards Society 5.0, Taylor

and Francis, CRC Press, pp 179, Nov 2021

- .“Research Issues in IoT”,CRC Press book chapter, Computing Technologies and Applications: Paving Path Towards Society 5.0 , Taylor and Francis, pp 93, Nov 2021
- .“Financial forecasting of stock market using sentiment analysis and data analytics”, 5th world conference on smart trends in systems, security and sustainability” 29-30 July 2021, London United Kingdom, ISBN 978-981-16-6368-0, Springer Lecture Notes in Networks and Systems book series (LNNS, volume 334), pp 423-430, <https://link.springer.com/>
- .“Classification of handwritten Indic script using deep learning”, 5th world conference on smart trends in systems, security and sustainability” 29-30 July 2021, London United Kingdom, ISBN 978-981-16-6308-6, Springer Lecture Notes in Networks and Systems book series (LNNS, volume 333), pp 499-506, <https://link.springer.com/>

### **xiii. No. of Books published with details : 07**

- 1) Book on “Handwritten Devnagari Character Recognition using Soft Computing: Basics, concepts and some soft computing techniques”, LAP LAMBERT Academic publishing, 2012, ISBN: 978-3-659-27841-9
- 2) “Practical Guide to Distributed Systems in MPI: Kindle Edition, Amazon Asia-Pacific Holdings Private Limited, ASIN: B077RRPGNL,ISBN-10: 1973503360 ISBN-13: 978-1973503361
- 3) “Python for Data Analysis: A Quick Python Learning Guide for Beginners”, Kindle Edition, Amazon Asia-Pacific Holdings Private Limited, ASIN: B07CJXS6V4
- 4) " R programming for beginners ", University Press, 2020, ISBN 978-93-89211-56-6
- 5) “Computing Technologies and Applications Paving Path Towards Society 5.0”, CRC Press Taylor and Francis, ISBN 9780367763701, 2021 <https://in.b-ok.as/book/>
- 6) “Cloud computing Technologies for smart agricultural and healthcare”, CRC Press Taylor and Francis, ISBN 9781032068039, 2021 <https://www.routledge.com/>
- 7) “Block Chain for Smart Systems: Computing Technologies and Applications” , CRC Press Taylor and Francis, ISBN 9781032068046, 6 July 2022 <https://www.routledge.com/>

### **Awards:**

- 1) DEWANG MEHTA National Education Award FOR “Best Professor In Computer Engineering” 26 sept 2017
- 2) “Prof Indira Parikh 50 women Leadership Award”, 23 Nov 2017, Mumbai.
- 3) “100 Most Dedicated Professors” by the World Education Congress, 4th July, 2019
- 4) Won 2nd prize in T-L-E Hackathon (Teaching-Learning-Evaluation)



- i. Name :** Dr. (Ms.) Shilpa Shrikant Deshpande
- ii. Date of Birth:** June 02, 1974
- iii. Unique id:** 1-430203714
- iv. Educational Qualifications :** Ph. D. Computer Engineering  
M. E. Computer Engineering  
B. E. Computer Engineering
- v. Work Experience :**
  - .Teaching:** 24 years
  - .Research:** 03 years
  - .Industry:** ----
  - .Others:** ----
- vi. Area of Specialization :** Cloud Computing, Software Engineering
- vii. Courses taught:**
  - .Under Graduate level:**
    - Java Full Stack Technologies - Final Year BTech.
    - Software Engineering - Final Year BTech.
    - Cloud Computing - T. Y.
    - Software Design and Architecture - T. Y.
    - Software Testing and Quality Assurance - B. E.
    - Software Design Methodologies and Testing - B. E.
    - Software Engineering - T. E.
    - Operating Systems - B. E.
    - Advanced Unix Programming - B. E.
    - Computer Graphics - B. E., T. E.
- viii. Research guidance: ----**
  - .No. of papers published in National / International Journals: ----**
  - .Master: ----**
  - .Ph.D. : ----**
- ix: Projects Carried out: ----**
- x: Patents: ----**

**xi: Technology Transfer: ----**

**xii: Research Publications:**

- .S. Deshpande and R. Ingle. Evidence Based Trust Estimation Model for Cloud Computing Services. *International Journal of Network Security (IJNS)*, 20(2):291–303, 2018.
- .S. Deshpande and R. Ingle. Preferences Based Customized Trust Model for Assessment of Cloud Services. *International Journal of Electrical and Computer Engineering (IJECE)*, 8(1):304–325, 2018.
- .S. Deshpande and R. Ingle. Trust Assessment in Cloud Environment: Taxonomy and Analysis. In *Computing, Analytics and Security Trends (CAST), International Conference on*, pages 627–631. IEEE, 2016.
- .Potnis M., Sathe S., Tugaonkar P., Kulkarni G., Deshpande Shilpa, Hybrid Intrusion Detection System for Detecting DDoS Attacks on Web Applications Using Machine Learning. 6th International Conference on ICT for Sustainable Development, August 2021.
- .Madhura Apte, Supriya Kelkar, Aishwarya Dorge, Shilpa Deshpande, Pooja Bomble, Anushka Dhamankar, Gateway Based Trust Management System For Internet Of Things, Revista Geintec-Gestao Inovacao E Tecnologias, Vol. 11, Issue No. 4, ISSN: 2237-0722, pp. 4750-4763, August 2021.

**xiii. No. of Books published with details: \_\_\_\_**



- i. Name : Ashutosh N. Muchrikar
- ii. Date of Birth : 06 - 01 - 1964
- iii. Unique id : 1-430203536
- iv. Educational Qualifications : MTech
- v. Work Experience
- Teaching : 27 Years
  - Research : Nil
  - Industry : 4.5
  - Others : Nil
- vi. Area of Specialization : Software architecture, Project management, Object oriented Systems, Cloud computing
- vii. Courses taught:
- Under Graduate level : Database Management Systems, Advance Computer Programming, Object Oriented Component Systems, Software Engineering, Software Design and Architecture, Cloud Computing,
- viii. Research guidance : Nil
- ix. Projects Carried out : Nil
- x. Patents : Nil
- xi. Technology Transfer : Nil
- xii. Research Publications : Nil
- xiii. No. of Books published with details : Nil



- i. Name : Dr. Shubhangi Vinayak Tikhe
- ii. Date of Birth : 29 - 04 - 1963
- iii. Unique id : 1-431276811
- iv. Educational Qualifications : PhD
- v. Work Experience :
- Teaching : 29 Years
  - Research : Nil
  - Industry : 01 Year
  - Others : Nil
- vi. Area of Specialization : Digital Signal Processing, Computer Networks, Machine Learning
- vii. Courses taught:
- Under Graduate level : Theory of Computations, Design and Analysis of Algorithms, Computer Networks, Digital Signal Processing
- viii. Research guidance : Nil
- ix. Projects Carried out : Nil
- x. Patents : Nil
- xi. Technology Transfer : Nil

<b>2008-2009</b>	
1.	Study Of Image Enhancement Techniques For Digital Radiograph In Diagnosis Of Dental Care, International Seminar & Call for Papers on, "IT In Academics" 20nd to 22th February , 2009, Pune, India
2.	Study of dental-disease identification in digital radiographs using feature extraction International Conference, 4 <sup>th</sup> -5 <sup>th</sup> March 2008-2009 International Conference ITECH09 in Amrutvahini College of Engineering Sangamner
<b>2009-2010</b>	
3.	Histogram Equalization for Class-Identification of Dental Disease Using Digital Radiography, International conference, BAIP 2010, Trivendram
<b>2015-2016</b>	
4.	Algorithm to Identify Enamel Caries and Interproximal Caries Using Dental Digital Radiographs, 6th IEEE International Advance Computing Conference (IACC-2016) February 27-28, 2016
5.	Algorithm to Detect Fracture from OPG Images Using Texture Analysis, 6th IEEE International Advance Computing Conference (IACC-2016) February 27-28, 2016
<b>2016-2017: Scopus indexed Journal Papers :</b>	
6.	Automatic Segmentation of Lower Jaw and Mandibular Bone in Digital Dental Panoramic Radiographs. Indian Journal of Science and Technology, Vol 9(21), DOI: 10.17485/ijst/2016/v9i21/90293, June 2016
7.	Multipoint Search Algorithm for Automatic Segmentation of Tooth from Digital Intra Oral Periapical Radiographs, Indian Journal of Science and Technology, Vol 9(21), DOI: 10.17485/ijst/2016/v9i21/90286, June 2016
8.	Classification of Digital Intra Oral Periapical Radiographs by Selecting a Feature Vector using Hybrid Method for Selection of Features Indian Journal of Science and Technology. Indian Journal of Science and Technology, Vol 9(33),Doi:10.17485/ijst/2016/v9i33/96305, September 2016
9.	Generation of Feature Vector for Statistical Texture Analysis of Mandibular Bone, Indian Journal of Science and Technology. Indian Journal of Science and Technology, Vol 9(33),Doi:10.17485/ijst/2016/v9i33/96305, September 2016
<b>2018-2019: PubMed indexed Journal Papers:</b>	

10.	Unsupervised Learning Using Self Organizing Feature Map to Cluster Mandibular Bone Features from Digital Orthopantomogram, Volume 17 Issue 8 – 2018, EC Dental Science (2018).
11.	Osteoporosis Features Observed in Mandible Cortex from Orthopantomogram, Volume 18 issue 2 – 2019, EC Dental Science (2019).
12.	Classification of Digital Intra Oral Periapical Radiographs Represented as Feature Vector Using Neural Network Architectures: A Comparative Study, Volume 17 Issue 8 – 2018, EC Dental Science (2018).
13.	Review of Applications of Deep Learning Methods for Classification of Bio Medical Images ,Volume 18 issue 2 – 2019, EC Dental Science (2019).
	<b>2020-2021:</b>
14.	Prediction and Prognosis of Lung Cancer using Machine Learning Techniques : International research journal of engineering and technology (IRJET): IF: 7.529 e-ISSN: 2395-0056 0-ISSN:2395-0072 Vol 8, Issue9, Sep2021

xiii. No. of Books published with details : Nil



- i. Name : Dr. Chhaya Santosh Gosavi
- ii. Date of Birth : 25/01/1978
- iii. Unique id : 1-431070912
- iv. Educational Qualifications : Ph. D. (Computer Engineering)
- v. Work Experience :
- Teaching : 21 Years and 7 Months
  - Research : Nil
  - Industry : Nil
  - Others : Nil
- vi. Area of Specialization : Multimedia, Watermarking, Machine Learning
- vii. Courses taught :
- Under Graduate level :
    - Principles of Programming Languages,
    - Multimedia Technique
    - Principles of Compiler Design
    - Digital Signal Processing and Applications
    - System Programming and Operating Systems
    - Operating Systems
- viii. Research guidance :
- No. of papers published in National/ International Journals/
    - National : 01
    - International Journals: 13
  - Master : 01
  - Ph.D. : Nil
- ix. Projects Carried out : Nil
- x. Patents :

Application Number 331/MUM/2015

Publication date : 06/03/2015

Title : "System for piracy detection and Method therefor"

xi. Technology Transfer : Nil

xii. Research Publications :

1. **Gosavi Chhaya S.**, and Suresh N. Mali. "Secure, Robust Video Watermarking to Prevent Camcorder Piracy."Indian Journal of Science and Technology(IJST), Vol10, Issue 18, pp. 1-10, 2017 (**Web of Science indexed**).
2. **Chhaya Gosavi**, S.N.Mali, "Watermarking for Video using Single Channel Block based SCHUR Decomposition", Global Journal of Pure and Applied Mathematics (GJPAM), Vol. 12, Issue 2, pp. 1575-1585,2016 (**SCOPUS indexed**)
3. **Chhaya Gosavi**, S.N.Mali, "Analysis of Blind Image Watermarking Algorithms", Springer, Advances in Intelligent and Soft Computing, Vol. 673, pp. 59 – 63, 2017 (**SCOPUS indexed**)
4. **Chhaya Gosavi**, S.N.Mali, "Authenticity of Audio Signal using Watermarking Techniques", Journal of Basic and Applied Research International, International Knowledge Press, Volume 16, Issue 1, pp . 74-79, 2016
5. **Chhaya Gosavi**, S.N.Mali, "Comparative Performance Analysis of Video Watermarking in DCT, DCT-SVD Domains," International Journal of Artificial Intelligence and Neural Networks– IJAINN, Volume 5: Issue 2 [ISSN : 2250-3749] , pp 63-67, October, 2015
6. **Chhaya Gosavi**, S.N. Mali, "Video Authentication and Copyright Protection Using Unique Watermark Generation Technique and Singular Value Decomposition", International Journal of Computer Applications,, Volume 123 – No.3, pp. 1-5, ISSN 0975 – 8887, doi: 10.5120/ijca2015905255, August 2015
7. **Chhaya Gosavi**, S.N.Mali, "Authenticity of Audio Signal Using Effective Audio Watermarking," International Journal of Information Systems, Vol 5, Issue 2, pg. 136-139, ISSN 2229-5429, Jan- May 2015
8. **Chhaya Gosavi**, S.N.Mali, "Frame Selection for Video Watermark Embedding using Scene Change Detection Algorithm," International Journal of Electronics Communication and Computer Engineering, Vol. 05, issue 4, July, Technovision-2014.
9. Meenal Kamalakar, **Chhaya Gosavi**, "Various Techniques Using Block Based Svd In Different Colour Channels For Secure, Robust And More Efficient Video Watermarking", International

J. of Engg. Research & Indu. Appls. (IJERIA). ISSN 0974-1518, Vol.6, No. III (August 2013), pp 139-149

10. Meenal Kamalakar, **Chhaya Gosavi**, Abhijit Patankar, “Single Channel Watermarking for Video using Block Based SVD”, International Journal of Advances in Computing and Information Researches, (IJACIR), Vol 1, No 2 (2012)
11. Meenal Kamalakar, **Chhaya Gosavi**, Abhijit Patankar, “Secure, Robust and more efficient Watermarking for Video using SVD for protecting rightful ownership”, International Journal of Engineering Research and Industrial Applications, IJERIA, Vol.5 , NO 2, May 2012.
12. **Chhaya Gosavi**, C.S.Warnekar, “Multimedia Security using Watermarking Techniques”, International Journal of Computer Science and Information Security, IJCSIS, Vol. 08, No. 05, August 2010, pg no.64-72.
13. Rashmi Wagha, **Chhaya Gosavi**, “Deep Eyes”, Universal Review, Vol. 07, No. 10, Oct 2018, pg. no. 386-391. **DOI:16.10089.UR.2018.V7I10.15.2054**  
[<http://www.universalreview.org/gallery/56.oct%20urj%20-%20as.pdf>]
14. Sheetal Barekar, Manik Mali, **Chhaya Gosavi**, “ Fault Tolerant SRAM Array Structure for Reliability Enhancement Against Failures” Journal of Critical Reviews, Vol. 07, Issue 09, pp. 2054-2061, May 2020 (**Scopus Indexed**)

xiii. No. of Books published with details : Nil



- i. Name : Hitendra Shankarrao Khairnar
- ii. Date of Birth : 20/06/1976
- iii. Unique id : 1- 431071134
- iv. Educational Qualifications : M.E(Computer) Phd Perusing
- v. Work Experience :
- Teaching : 22 years
  - Research :-
  - Industry :-
  - Others :-
- vi. Area of Specialization : Machine Learning, Algorithms, Big data analytics
- vii. Courses taught :
- Under Graduate level :
    1. Design and Analysis of Algorithms
    2. Theory of Computation
    3. System Programming and Operating Systems
    4. Principles of Concurrent and Distributed Computing
    5. Operations Research
    6. Problem Solving with Gamification
    7. Big data Analytic
- viii. Research guidance : NA
- No. of papers published in National/ International Journals/
  - Master
  - Ph.D.
- ix. Projects Carried out : NA
- x. Patents : NA
- xi. Technology Transfer : NA

xii. Research Publications

: 5 Conferences + 1 Journal

Name of the conference	Paper title	Presented on	Indexing and ISBN Number
6th International Conference on ICT for sustainable Development	Accident Hotspot detection using DBSCAN clustering	August 5 - 6, 2021	Springer, International Federation for Information Processing  ISBN: 2367-3370
6th International Congress on Information and Communication Technology in concurrent with ICT Excellence Awards (ICICT 2021), London , UK	Predicting traffic path recommendation using Spatiotemporal Graph Convolutional Neural Network	February 25 - 26, 2021	Springer, International Federation for Information Processing  ISSN: 2367-3370
First Doctoral Symposium on Natural Computing Research (DSNCR 2020)	Review of Challenges for Short Term Traffic Forecasting	August 8, 2020.	Springer, International Federation for Information Processing ISBN 978-981-334-073-2
5th International conference on Computer and Communication Systems (ICCCS2020), Shanghai, China	Aggregated Time Series based Vehicular Traffic Path Recommendation	May 15 - 18, 2020	IEEE ISBN:978- 1-7281-6136-5  doi: 10.1109/ICCCS49078.2020.9118575

2009 International Conference on Intelligent Agent & Multi-Agent Systems	A decision support system for scheduling a new train in Indian Railway network	July 22- 24 , 2009	IEEE ISBN:978-1-4244-4710-7  DOI: 10.1109/IAMA.2009.5228047
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<b>Name of the Journal</b>	<b>Paper title</b>	<b>Publishcation details</b>
International J. of Engg. Research & Indu. Appls. (IJERIA).	DEVELOPMENT OF EVENT REPORTING (E-53) STANDARD IN GENERIC EQUIPMENT MODEL LAYER FOR SEMI AUTOMATION TOOL	ISSN 0974-1518, Vol.2, No. V (2009), pp 73-86

xiii. No. of Books published with details :NA



- i. Name : Dr. Mrs. Anjali M. Naik
- ii. Date of Birth : 14-4-1969
- iii. Unique id : 1-431070916
- iv. Educational Qualifications : PhD Computer Science and Engineering
- v. Work Experience :
- 15. Teaching : 28 years
  - 16. Research :
- vi. Area of Specialization : Deep Learning, Soft Computing
- vii. Courses taught :
- Under Graduate level : COBOL, Computer Fundamentals, Data structures, Computer Graphics, Discrete structures, Artificial Intelligence, Neural Networks, Digital Signal Processing, Smart system design and architecture, Artificial Intelligence and Machine Learning, Deep Learning, Soft Computing, Software Testing and Quality assurance
- viii. Research guidance : Nil
- No. of papers published in National/ International Journals/ : 14
  - Master : ME Electronics -Computers
  - Ph.D. : Computer Science and Engineering
- ix. Projects Carried out : Nil

- x. Patents filed : 2  
 Automatic Strip Segmentation Algorithm for Segmentation of Mandible Cortex from Digital OPG Image  
 Development of Intelligent Algorithm to Find Osteoporosis Susceptibility from Orthopantomogram
- xi. Technology Transfer : Nil
- xii. Research Publications :

<b>2005-2006</b>	
•	Structural Approach in Recognition of Handwritten Devanagari Script, IEEE National level Technical symposium, TsyGeca06@ government engineering college, Aurangabad : 2005-2006
<b>2008-2009</b>	
•	Study Of Image Enhancement Techniques For Digital Radiograph In Diagnosis Of Dental Care, International Seminar & Call for Papers on, "IT In Academics" 20nd to 22th February , 2009, Pune, India
•	Study of dental-disease identification in digital radiographs using feature extraction International Conference, 4 <sup>th</sup> -5 <sup>th</sup> March 2008-2009 International Conference ITECH09 in Amrutvahini College of Engineering Sangamner
<b>2009-2010</b>	
•	Histogram Equalization for Class-Identification of Dental Disease Using Digital Radiography, International conference, BAIP 2010, Trivendram
<b>2015-2016</b>	
•	Algorithm to Identify Enamel Caries and Interproximal Caries Using Dental Digital Radiographs, 6th IEEE International Advance Computing Conference (IACC-2016) February 27-28, 2016
•	Algorithm to Detect Fracture from OPG Images Using Texture Analysis, 6th IEEE International Advance Computing Conference (IACC-2016) February 27-28, 2016
• <b>2016-2017: Scopus indexed Journal Papers :</b>	
•	Automatic Segmentation of Lower Jaw and Mandibular Bone in Digital Dental Panoramic Radiographs. Indian Journal of Science and Technology, Vol 9(21), DOI: 10.17485/ijst/2016/v9i21/90293, June 2016
•	Multipoint Search Algorithm for Automatic Segmentation of Tooth from Digital Intra Oral Periapical Radiographs, Indian Journal of Science and Technology, Vol 9(21), DOI: 10.17485/ijst/2016/v9i21/90286, June 2016

<ul style="list-style-type: none"> <li>• Classification of Digital Intra Oral Periapical Radiographs by Selecting a Feature Vector using Hybrid Method for Selection of Features Indian Journal of Science and Technology. Indian Journal of Science and Technology, Vol 9(33),Doi:10.17485/ijst/2016/v9i33/96305, September 2016</li> </ul>
<ul style="list-style-type: none"> <li>• Generation of Feature Vector for Statistical Texture Analysis of Mandibular Bone, Indian Journal of Science and Technology. Indian Journal of Science and Technology, Vol 9(33),Doi:10.17485/ijst/2016/v9i33/96305, September 2016</li> </ul>
<p><b>2018-2019: PubMed indexed Journal Papers:</b></p>
<ul style="list-style-type: none"> <li>• Unsupervised Learning Using Self Organizing Feature Map to Cluster Mandibular Bone Features from Digital Orthopantomogram, Volume 17 Issue 8 – 2018, EC Dental Science (2018).</li> </ul>
<ul style="list-style-type: none"> <li>• Osteoporosis Features Observed in Mandible Cortex from Orthopantomogram, Volume 18 issue 2 – 2019, EC Dental Science (2019).</li> </ul>
<ul style="list-style-type: none"> <li>• Classification of Digital Intra Oral Periapical Radiographs Represented as Feature Vector Using Neural Network Architectures: A Comparative Study, Volume 17 Issue 8 – 2018, EC Dental Science (2018).</li> </ul>
<ul style="list-style-type: none"> <li>• Review of Applications of Deep Learning Methods for Classification of Bio Medical Images ,Volume 18 issue 2 – 2019, EC Dental Science (2019).</li> </ul>
<p><b>20-21: Other Publications</b></p>
<ul style="list-style-type: none"> <li>• Analysis of Shallow Neural Network for the Lung Cancer Detection Using CT - Scan Images, authored by Sakshi Karanjekar, Eniya Kulshreshtha, Sakshi Saoji, Zayeema Masoom, Anjali Naik presented in First, Doctoral Symposium on Natural Computing Research 2020 held on 8th Aug 2020 is awarded best prize for best paper in domain of Networking , DSNCR-2020</li> </ul>

No. of Books published with details : Nil



**Name:** Saurabh Prabhakar Mengale

**Designation:** Assistant Professor

**Qualification:** B.E (Computers)

**Experience:** Teaching: 23years Industry: 3 years

**Area of Interest:** Computer Networking, Network/ Cyber Security

### **Workshops Attended**

1. ATAL Academy on line FDP on “Blockchain “ organized by Amity University from 7<sup>th</sup> December 2020 to 11<sup>th</sup> December 2020
2. FDP on “Cyber Security” organized by E & ICT Academy IIT Kanpur between 22<sup>nd</sup> Feb 2021 to 28<sup>th</sup> Feb 2021
3. ATAL Academy on line FDP on “Gamification” organized by Vishwakarma Institute of technology from 18<sup>th</sup> Jan 2021 to 22<sup>nd</sup> Jan 2021
4. ATAL Academy on line FDP on “Internet of Things” organized by University of Hyderabad from 8<sup>th</sup> Feb 2021 to 12<sup>th</sup> Feb 2021

### **Paper Presented/ Published**

- 1 Presented paper at IEEE and CSI International conference on “Intelligent Agent and Multi Agent System (IAMA09) on 22-24th July 2009 at Chennai, “A Decision Support System for Scheduling a New Train in Indian Railway Network”.

### **Departmental Administrative Responsibilities:**

1. Class In Charge for B.tech Final Year B Division for sem II Year 2021
2. Final year B.Tech Co-ordinator for Second SEM 2021
- 3 Summer Internship Co-ordination
4. Coordinator for NBA Indirect Attainment under Criteria 3
5. Coordinator for all types of feedback

### **Contribution in the Exam Related Activities**

- 1 Subject Chairman for Introduction to Cyber Security (Open Elective Final Year B.Tech 1<sup>st</sup> Sem 2020-2021), Network and Information Security (Final Year B.Tech II SEM 2019-2020)

- 2 Paper Setter for all above mentioned subjects
3. Senior Supervision During the ESE Exam

**Membership of Scientific and Professional Society**

- 1 CSI Life Membership

**Samstha Level administrative Responsibilities**

- 1 Contribution towards Bhaubeej Nidhi Initiative



i. Name : Rakhi Ashutosh Dongaonkar

ii. Date of Birth : 28 - 09 - 1978

iii. Unique id : 1-431071138

iv. Educational Qualifications : ME [CSE-IT]

v. Work Experience :

- Teaching : 20 Years
- Research : Nil
- Industry : Nil
- Others : Nil

vi. Area of Specialization : Databases, Object Oriented Programming

vii. Courses taught :

- Under Graduate level : Database Management Systems, Principles of Programming Languages, Object Oriented and Multicore Programming, Operating Systems, Computer Organization , Software Modeling and Design, Data Mining and Data Warehousing

viii. Research guidance : Nil

ix. Projects Carried out : Nil

x. Patents : Nil

xi. Technology Transfer : Nil

xii. Research Publications :

1. “Applying Hyper Threading Technology for evaluating the performance of HTTP server for stored audio/video retrieval”, at the 2<sup>nd</sup> International Conference on Emerging Trends in Engineering and Technology (ICETET) – 09 at G. H. Rasoni College of Engineering, Nagpur, from 16-18 Dec 2009

xiii. No. of Books published with details : Nil



**i. Name** – Madhuri Tasgaonkar

**ii. Date of Birth** – 14.08.1972

**iii. Unique ID** – 1 – 43101272

**iv. Educational Qualifications** – Ph. D.

**v. Work Experience**

Teaching – 23 years

Research – 3 years

Industry – Nil

Others – Nil

**vi. Area of Specialization** – Biomedical Image processing and analysis, Pattern Recognition

**vii. Courses taught at Undergraduate Level** – Big Data and Analytics, Microprocessor Architectures, Digital Electronics, Computer Organization, Multimedia Systems, Advanced Computer Architecture

**viii. Research Guidance (no. of students)** – Nil

No. of research papers – Nil

Research guidance : Nil

Projects Carried out : NIL

Patents : Filed (01)

Technology Transfer :

**ix. Research Publications :**

1. “Red Profile Moments for Hemorrhage Classification in Diabetic Retinal Fundus Images”, Madhuri Tasgaonkar, Madhuri Khambete, Pattern Recognition and Image Analysis in Mathematical Theory and Applications, Springer, (2019) 29: 224. <https://doi.org/10.1134/S1054661819020093>

2. “VIRTUAL REALITY: A STEP TOWARDS TELEPRESENCE”, Devina Dhuri, Dharna Ingale, Prajakta Gawali, Madhuri Tasgaonkar, Sakshi Dhokrat and Utkarsha Funde, IET International Conference on Emerging Trends in Electrical and Communication Technologies (ICETECT 2017), Chennai, India

3. “Using Differential Morphological Profiles for Microaneurysm Detection in Retinal Fundus Images”, Madhuri Tasgaonkar, Madhuri Khambete, IEEE International Conference on Signal and Information Processing (IconSIP 2016), SGGGS Nanded, India

4. “Integrating fuzzy c-means and mahalanobis metric classification for exudate detection in color fundus imaging”, M Tasgaonkar, M Khambete, Journal of Mechanics in Medicine and Biology 15 (05), 1550085

5. “Script-to-speech Conversion for Marathi language”, Madhuri Tasgaonkar, C. V. Joshi and N. B. Pasalkar, IEEE – Asia Pacific Conference tencon 2003, Bengluru, India.

6. “Script-to-Speech conversion for Marathi Language”, Madhuri Tasgaonkar, C. V. Joshi and N. B. Pasalkar, IEEE state level conference on signal Processing at MAE, Alandi.

7. Published a Web article on “Script-to Speech Conversion” at NACTT site. Circulated a copy at National level.

**x. No. of Books published with details : NIL**



- i. Name :Aparna Utkarsh Hajare
- ii. Date of Birth : 20/04/1981
- iii. Unique id :1-431276815
- iv. Educational Qualifications :ME Computer (Computer Network)
- v. Work Experience :
- . Teaching : 17
  - . Research : NA
  - . Industry : NA
  - . Others : NA
- vi. Area of Specialization : Computer Network
- vii. Courses taught :
- Under Graduate level : Theory of Computation, Design and Analysis of Algorithms, Operating System Design, Distributed Operating System, Computer Networks
- viii. Research guidance :
- . Papers Presented/Published in National/ International Journals

Sr. No.	Title of Paper	Type of publication	Event Type	Event Details
1	Simple Text Annotation Tool (STAT):Web-based tool for creating training data	Vol 1 & 2 ISBN: 978-981-16-5654-5 Publisher Name Springer, Singapore Date: 01 January 2022 Link	International Conference	ICT4SD - 6th International Conference on ICT for Sustainable Development, Goa, India August 5th-6th 2021

		<a href="https://link.springer.com/chapter/10.1007/978-981-16-5655-2_29">https://link.springer.com/chapter/10.1007/978-981-16-5655-2_29</a>		
2	Creating Helm Charts to ease deployment of Enterprise Application and it's related Services in Kubernetes	IEEE International Virtual Conference on Computing, Communication and Green Engineering-2021 (CCGE'21)	International Conference	Organized by JSPM'S Rajarshi Shahu College of Engineering, Pune 23rd - 25th Sept. 2021
3	Generalized Named Entity Recognition Framework	2021 Asian Conference on Innovation in Technology (ASIANCON)	Conference	Organized by Pimpri Chinchwad College of Engineering & Research ( PCCOER) , Pune. 28th Aug – 29th Aug. 2021



i. Name : Dr. Neeta Pravin Maitre

ii. Date of Birth : 22nd August 1980

iii. Unique id :1-431276819

iv. Educational Qualifications :Ph.D. (Computer Science and Technology) , D.B.M.

**v. Work Experience**

Teaching : 19

Research : 10

Industry : Nil

Others : Nil

vi. Area of Specialization :Databases, Bioinformatics, Management

**vii. Courses taught**

- Under Graduate level : Organizational Behavior, Big data and analytics, Database Management Systems, Management Information Systems, Data Mining and Warehousing, Enterprise Resource Planning,

viii. Research guidance : Nil

ix. Projects Carried out : Nil

x. Patents : 01

Title: “A Method for predicting gene presence in a query sequence” Application No.201721036583 A  
Publication date : 22/12/2017

xi. Technology Transfer : Nil

xii. Research Publications :09

- Dr Neeta Maitre, 2nd International Conference on Management Skills and Growth Strategies in the Post-Pandemic Period organised by Prin. L.N. Welingkar Institute of

Management Development and Research, Mumbai – 400019 “From experience to exploration - Post pandemic Leadership in Education Domain” January 21-22, 2021

- Dr Neeta Maitre, “Types of genetic modification with synergistic overview of machine learning algorithms”, published in Science and Engineering Journal, Volume 24 , Issue 11 , UGC Approved Group II, November 2020.
- Neeta Maitre, “An Incremental approach towards clustering short length biological sequences”, published in Recent Trends in Communication and Intelligent Systems part of Algorithms for Intelligent Systems, Springer” (Scopus Indexed).
- Neeta Maitre, Manali Kshirsagar, “Expressed Sequence Tags and Gene Prediction”, International Journal of Innovations in Engineering and Technology (IJET), Volume 7 Issue 4, December, 2016.
- Neeta Maitre, Manali Kshirsagar, “Prediction Of Bacterial Infection In Cotton Using Expressed Sequence Tags”, International Journal of Pharmaceutical, Chemical and Biological Sciences, Volume 6, Issue 4, October – December, 2016.
- Neeta Maitre, Manali Kshirsagar, “Expressed Sequence Tags and Gene Prediction in cotton genome”, International Journal of Basic and Applied Biology ,p-ISSN: 2394-5820, e-ISSN: 2349-2539, Volume 3, Issue 1; January-March, 2016.
- Neeta Maitre, Manali Kshirsagar, “Expressed Sequence Tags-Clustering algorithmA computational overview”, Proceedings of International Conference on “Innovations and Trends in Applied Computing”, Yeshwantrao Chavan College of Engineering, Nagpur, February 2012.
- Dr Neeta Maitre, "AI based Solution : A Business Perspective", GORTERIA JOURNAL, VOLUME 34, ISSUE 7 - 2021, ISSN: 0017-2294
- Dr Neeta Maitre, "Relative Greenhouse Gases Emissions of MSA Algorithms: A comparison of T-Coffee and MAFFT", Journal of Emerging Technologies and Innovative Research, Volume 8, Issue 7, ISSN-2349-5162

xiii. No. of Books published with details :book chapter 02

1. Publication: Springer Book: Soft Computing in Data Analytics ISBN 978-981-13-0514-6  
Series: Advances in Intelligent Systems and Computing (Volume 758) Chapter:MidClustpy: A Clustering Approach to Predict Coding Region in a Biological Sequences. . . . .351-361

2. Publication: Taylor and Francis CRC press Book: Autonomous Driving and Advanced Driver-Assistance Systems (ADAS) Chapter Name:Human Factors in Autonomous Driving Systems: A User Perspective (pp. 381-388). Chapter 17



- i. Name :Meenal Amod Kamlakar
- ii. Date of Birth :29 July1980
- iii. Unique id :1-431208465
- iv. Educational Qualifications :ME Computer
- v. Work Experience :
- Teaching : 16 yrs.
  - Research : 0yrs.
  - Industry : 0.8 yrs.
- vi. Area of Specialization :Software Engineering ,Computer Networks
- vii. Courses taught :Software Engineering, Fundamental of Computer Networks, Computer Networks, Programming Skill Development Lab. Skill Development Laboratory, Data Communication, Data Communication and Wireless sensor Networks, Operating Systems, E-Business, Introduction to Cyber Crime and Forensics
- viii. Research guidance : nil
- ix. Projects Carried out :Nil
- x. Patents :Nil
- xi. Technology Transfer :Nil
- xii. Research Publications :
- Presented a paper on “Multi-Criteria Decision making based on PROMETHEE to prioritize hospital admission of pregnant women affected by COVID-19” in PROMETHEE Oct 21.
  - Published “Use of Machine Learning and Sensors for Monitoring Pregnancy”, along with Dipti D Patil, Department of Computer Engineering, Savitribai Phule Pune University, in IndiaActa

Scientific COMPUTER SCIENCES Volume 3 Issue 12 December 2021

- Published a chapter in “Human-Computer Interaction and Beyond:Advances Towards Smart and Interconnected Environments Part II” on “Helmet Violation Processing for Law enforcement using CCTV camera” 2022
- Presented and Secured Third prize in the Idea Competition, during the AICTE Sponsored One-Week Online Short Term Training Program on ‘Advances in Biomedical Signal Processing with Hands-on’, from 7 th September to 12th September 2020, organized by CCEW, Pune
- Published a chapter ,“DWT and SVD-based Robust Watermarking Using Differential Evolution with Adaptive Optimization ” in Cyber-Physical, IoT, and Autonomous Systems in Industry 4.0 CRC Taylor and Series 978-0- 367-70515-2. 2022
- Published a paper , “Secure , Robust And More Efficient Watermarking For Video Using SVD For Protecting Rightful Ownership”, in IJERIA,Vol no.2 ,May 2012.
- Published a paper , “ Single Channel Watermarking For Video Using Block Based SVD” International Journal of Advances in Computing and Information ResearchesVol 1, No 2 (2012).
- Published a paper ,“Various techniques using block based Svd in different colour channels for Secure, robust and more efficient Video watermarking”, International J. of Engg. Research & Indu. Appls. (IJERIA).ISSN 0974-1518, Vol.6, No. III (August 2013), pp 139-149
- Published a paper on video watermarking in CSI national level conference at Rambaugh Institute of Technology.(2012)
- Presented and Won the judges appreciation award for paper on video watermarking in E-merge CSI state level student convention.(2012)

xiii. No. of Books published with details :Nill



Name: Nutan Hemant Deshmukh

Designation: Assistant Professor

Qualification: M.E Computer Engineering

Experience: 17 years.

Area of Interest: Internet of Things, Artificial and Machine learning, Embedded systems, Micro Controllers and Processors.

Workshop Attended:

- Faculty Development Program in Software Engineering organized by Persistent Systems Ltd. In Dec 07.
- Mission 10X Workshop, Attended 5-days in July '08.
- Attended 5 days workshop on Compiler construction organized by TCS. In Feb 2009
- Mission 10X Learning Approach Practitioners, conducted by Wipro, Feb 2009.
- Android Basic and Android Advance workshop by DG Home Organized by CCOEW IT Department, 26th and 27th August 2011 and 16th and 17<sup>th</sup> September 2011.
- FDP on “Mobile Computing & Business Intelligence”, 13 Jan 2012.
- International Conference on Emerging Trends in computer Science and Information Technology (ETCSIT – 2012), at 16th and 17th March 2012, Organized by Department of Computer Engineering K.K. Wagh Institute Engineering Education and Research Nashik, Maharashtra, India.
- One Week STTP on “Advances in Signal and Image Processing(ASIP)” under Technical Education Quality Improvement Program (TEQIP Phase II), Duration –
- 26th to 30th November 2012, Organized by Instrumentation Engg. Department, Government College of Engg.,Jalgaon.
- One week STTP on “Recent Trends in Computer Networking(RTCN)” under Technical Education Quality Improvement Program (TEQIP Phase II), Duration – 3rd to 7th December 2012, Organized by Computer Engg. Department, Government College of Engg., Jalgaon.
- “c-PGCON-2013” Conference duration 29th – 30th March 2013, Organizer Computer dept. PICT, Pune.
- 7th International Conference on Software Engineering (CONSEG) held from November 15-17, 2013 at Pune, India. Organized by Computer society of India.
- AICTE sponsored two weeks faculty Development Programme on “ Mobile Application Development using Andriod: A next Generation Platform”, 2nd to 13th December 2013, at PICT COE, Pune India.
- International Conference on Machine Intelligence and Research Advancement (ICMIRA-

2013) 21-23<sup>rd</sup> December 2013, SMVDU, Katra, Jammu, India. - 3 days.

- Two weeks ISTE workshop on “Computer Programming” by IITB at CCOEW from 9th June to 21st June 2014.
- FDP on “Embedded Operating System”, organized on 29th December 2014, at Smt. Kashibai Navale COE, Vadgaon, Pune.
- FDP on “Computer Organization and Architecture”, organized on 24 June 2016, at NBN Sinhadgad School of Engineering, Ambegaon, Pune.
- 2 Days State Level Workshop on “Internet of Things (IoT), Analytics, Computing Technioques and Tools for Smart Cities”, organized by department of Computer engineering, MKSSS's Cummins College of Engineering for Women, Pune duration 17th February to 18th February 2017.
- TEQIP Phase-II Sponsored One week Short term Training Programme on “Network System Administration & Security”, at College of Engineering Pune during March 8-12th 2017.
- Knowledge sharing program on “Innovative Methods of Teaching” at MKSSS's Cummins College of Engineering for Women, Pune on 9th June 2017.
- 1 week FDP on “ Embedded System and Internet of Things”, 18th to 23rd December 2017 at Pimpri-Chinchwad College of Engineering, Pune.
- Two days State level workshop on “Internet of Things (IoT), Analytics, Computing Techniques anbd Tools for Smart Cities”, organized by Cummins COE Pune, 17-18<sup>th</sup> February 2017.
- 2 days FDP on “ Artificial Intelligence and Robotics”, 5th and 6th July 2018 at Pimpri-Chinchwad College of Engineering Pune.
- FDP on “Laboratory Practice – I”, 10th July to 12 July 2018 at MAEER's MIT College of Engineering, Pune.
- NPTEL 8 weeks Online certification course on “Developing Soft Skills and Personality”, from month of August to October 2018.
- 2 days State Level Workshop on “Machine Learning using Python-Statistical Approach”, from 21st December to 22nd December 2018 organized by Department of Computer Engineering, MKSSS's Cummins College of Engineering for Women.
- FDP on “Laboratory Practice – I “ organized by MIT College of Engineering, Pune, 10<sup>th</sup> July to 12<sup>th</sup> July 2018.
- Two days FDP on “ Artificial Intelligence and Robotics”, organized by Pimpri Chinchwad COE Pune, 5-6<sup>th</sup> July 2018.
- One Week FDP on “Embedded System and Internet of Things”, organized by Pimpri Chinchwad college of engineering Pune, 18<sup>th</sup> to 23<sup>rd</sup> December 2017.
- Knowledge Sharing Program on “Innovative Methods of Teaching” at Cummins COE Pune on June 09<sup>th</sup> 2017.
- One week National Level Online Faculty Development Program on " Online Teaching

Learning Processes using ICT tools for Education 4.0" organized by Department of Information Technology, SVPCET Nagpur, in association with Computer Society of India from 8th to 13th June, 2020.

- 1-Week FDP on "Latex" organized by Bapurao Deshmukh College of Engg., Wardha jointly with Spoken Tutorials Project, IIT Bombay, Dept of Electrical Engg. from 8/6/2020 to 13/6/2020.
- 1-week FDP on " Security Issues and Role of Cryptography in Communication" ENC Department, UMIT, SNDTWU, Mumbai(M S), India from 22/6/2020 to 26/6/2020.
- 12-week Nptel Course on "Yoga Practices-I" (April-June 2020)
- Attended webinar 1-week Cummins Webcalve (Webinars) on " " organized by Computer Engg.Dept in association with ISA Delhi section, IEEE Nagpur sub section and IETE Nagpur from 29/5/2020 to 4/6/2020.
- Attended a Webinar on "Industry Trends using Machine Learning with MATLAB" conducted by PCCOE, Pune in association with Math-works on 3/6/2020.
- Two-days Live Online Webinar is scheduled on 15<sup>th</sup>-16<sup>th</sup> June 2020 on Water, sanitation, hygiene, and waste management for the COVID-19 virus organized by Department of Applied Sciences, Chitkara University, Punjab.
- Webinar on "Cyber Security- It's not just a technology " organized by CSI, Pune on 13/6/2020.

#### Paper Presented and Published

- Mission 10X Certificate awarded in Teaching and Learning on March 25, 2009.
- 2013 International Conference on Machine Intelligence Research and Advancement at Karta, Jammu, "Providing Data Security on Cell Phones", 978-0-7695-5013-8/13 at IEEE in 2013.
- Paper titled "Emotion Based Music System", selected and published in International Journal of Emerging Trends in Science and Technology, IGM publication, Volume 3 Issue 05 May 2016.
- Paper titled "Business Intelligence using Hadoop", selected and published in International Research Journal of Engineering and Technology, published in Journal Volume 6 Issue 4 April 2019.
- Internet of Things – Essential IoT Business Guide with Different , Computing Technologies and Applications Paving Path towards Society 5.0, Edited by Latash Malik, Sandhya Arora Urmila Shrawankar, Maya Ingle, and Indu Bhagat, CRC Press.

#### Departmental Administrative Responsibilities:

- Seminar coordinator since 2012.
- Deadstock and AMC incharge since last 2013.
- Final year coordinator for Autonomous batch for year 2019-20.
- Final year Class in-charge for year 2019-20.
- Third year class in-charge since 2017-18.
- Chairman for Final year Autonomous Subject Internet of Things from year 2019-20.
- Handling Criteria 6 for NBA in department.
- Handling post of Treasurer for Cummins Alumnae Association.
- Write-off Committee Member since 2015
- Canteen college level committee member since 2018
- Taking Self Expression DANCE since 2016.
- Guide for Internal Seminars.
- Guide for Final year Projects.
- Judge for dance competition for “Gandhar”.
- TechnoTryst 2010 : An intercollegiate event organized by Cummins College, Computer Dept.
- Worked as Antivirus in-charge for year 2013-2014.
- Exam coordinator since 2015 to 2017
- AMC in-charge/coordinator since 2013-14
- Lab In-charge of Hardware Lab II for last 7 years.

#### Contribution in the University Activities

As Internal and external examiner

Part of paper assessment for SE and TE computer engineering

Internal Examiner for BE project Evaluation

Rechecking of papers



**Name** : Sakshi Siddhesh Mandke

**Date of Birth** : 18 May 1985

**Unique ID:**

**Education qualification:**

1. M.E. Computer Engineering
2. B.E. Computer Engineering

**Work Experience:**

**Teaching:** 15 years till now

**Area of Specialization:** Data Structures, High Performance computing, Data Mining Graph mining

**Courses taught at UG level:** Data Structures and Algorithms, Data Mining, High Performance computing, Big Data and Analytics, Distributed Systems

**Paper Publications:**

1. "Extraction of frequent subgraph form graph database", International Journal IJRCCT, vol.3, March 2014.
2. "Device Model Recommendation System Using Machine Learning", International Journal of Future Generation Communication and Networking, July 2020, Vol.13, No.3 s(2020).
3. A paper "Use and Implementation of Gamification in Enterprise Systems" published in International Research Journal of Engineering and Technology (IRJET) Vol.8, issue 7, July 2021.

**Patent filed**

1. "System for individual identification based On eye-tracking and methods thereof" with the students.



- i. Name : Mrs. Pranjali A. Deshpande
- ii. Date of Birth : 09/06/1979
- iii. Unique id : 1-431208577
- iv. Educational Qualifications : M.E.(Computer Engineering) ,  
Pursuing PhD (Computer and Information Technology)
- v. Work Experience :
- Teaching : 16 years
  - Research : NA
  - Industry : NA
  - Others : NA
- vi. Area of Specialization : Natural Language Processing, High  
Performance Computing, Human  
Computer Interface, Ubiquitous  
Computing

**Received “Best Innovation Award 2021-22” by SPPU in the 73<sup>rd</sup> foundation day function of SPPU.**

- vii. Courses taught at Under Graduate level : High Performance Computing, Human Computer  
Interface, Digital Marketing, Big Data and Analytics,  
Natural Language Processing, Advanced Computer  
Architecture, Digital Electronics and Logic design,  
Microprocessors, Soft Skills, Software Design Lab.
- viii. Research guidance : Nil
- ix. Projects carried out : NA

**x. Patents:**

1. Patent with Application No.3693/MUM/2013 A, is granted by The Patent Office Journal India on 21/06/21.

Title of the invention: "SYSTEM AND METHOD FOR PROVIDING MUSICAL NOTATIONS"

2. Patent with Application No.201921001101 A, published in The Patent Office Journal India on 17/07/2020

Title of the invention: "SYSTEM AND METHOD FOR SARCASM DETECTION ON DEVANAGARI SENTENCES"

**xi. Technology Transfer :**

Developed a multidisciplinary system involving Linguistics knowledge and Computational ability, which incorporated the blending of grammar rules in Natural Language (Sanskrit Shloka) and the method to assign musical notations to it.

**xii. Research Publications:**

No. of papers published in National/ International Journals/

1. Paper published in International Journal of Computer Science and Information Security. 31051515: "Methodology of Assigning Musical Notations to Sanskrit Verse" Publication year : 2015, Vol. 13 Page(s) : 60- 67

2. Paper presented in cPGCON March 2014 at Matoshri College of Engg., Nashik.

3. Paper published in IEEE Fourth World Conference on Smart Trends in Systems, Security and Sustainability (WorldS4) : "Automatic Depression Level Detection Through Visual Input", Akshada Mulay;Anagha Dhekne;Rasi Wani;Shivani Kadam;Pranjali Deshpande;Pritish Deshpande Publication Year: 2020,Page(s):19 – 22

4. Paper published in IEEE Fourth World Conference on Smart Trends in Systems, Security and Sustainability (WorldS4) : "Text Summarization and Classification of Conversation Data between Service Chatbot and Customer", Tanmayee Behere;Avani Vaidya;Anamika Birhade; Komal Shinde;Pranjali Deshpande;Sunita Jahirabadkar Publication Year: 2020,Page(s):833 – 838

5. Paper published in the Smart Trends in Computing and Communications Proceedings of SmartCom 2021 : Springer Fifth International Conference on Smart Trends in Computing and Communications (SmartCom 2021) Las Vegas, Nevada- United States: "A Survey on Statistical Approaches for Abstractive Summarization of Low Resource Language Documents", Pages 729-738, Pranjali Deshpande;Sunita Jahirabadkar.

6. Paper published in International Journal of Computer Applications Foundation of Computer Science (FCS), NY, USA : Priya Andurkar, Akshat Pandey and Pranjali Deshpande. Calendar Delegation with Alexa. *International Journal of Computer Applications* 174(29):18-21, April 2021.

7. Paper presented in The 2nd IEEE IAS International Conference on Computational Performance Evaluation (ComPE-2021), Department of Biomedical Engineering, North-Eastern Hill University (NEHU) from 1<sup>st</sup> to 3<sup>rd</sup> December 2021: “Study of Low Resource Language Document Extractive Summarization using Lexical chain and Bidirectional Encoder Representations from Transformers (BERT)”

xiii. No. of Book chapters and books published with details :  
Book Chapters:

1) A book chapter “ A Survey of Approaches for Facilitating Rich User Experience in Healthcare Domain” by Pranjali Deshpande, Dr. Chhaya Gosavi is published in a book “Human-Computer Interaction and Beyond: Advances Towards Smart and Interconnected Environments” DOI:[10.2174/97898149988191210101](https://doi.org/10.2174/97898149988191210101)  
eISBN:978-981-4998-81-9, 2021  
ISBN: 978-981-4998-82-6 Bentham Science Publishers.

2) A book chapter “Low Resource Language Document Summarization: A challenge” by Pranjali Deshpande, Dr. Sunita Jahirabadkar is published in a book “Data Science Techniques and Intelligent Applications”  
eBook ISBN 9781032254494

**Books:**

- .“High Performance Computing”, ISBN- 978-93-332-1949-5 by Technical Publication.
- .“DECODE- High Performance Computing” ISBN-978-93-332-2012-5 by Technical Publication.
- .“Ubiquitous Computing” ISBN- 978-93-332-0033-2 by Technical Publication.
- . “DECODE- Ubiquitous Computing” ISBN 9789333201704 by Technical Publication.
- .
- .“Data Warehousing and Data Mining”, ISBN-13:978-9389420920 by Technical Publication.

.“Decode Block chain Technology”, ISBN-13:978-9389420012 by Technical Publication.

.“Modern Software Engineering”, ISBN 9789389750515 by Technical Publication.

.“Service Oriented Architecture”, ISBN 9789390041480 by Technical Publication.

. “Natural Language Processing”, ISBN 9789390450695 by Technical Publication.



Name : Mrs.Varsha Sujeet Pimprale

Date of Birth : 15.06.1981

Unique id : 1-466183473

Education Qualifications: M.E. (Computer Network)

Work Experience :

Teaching : 15 years

Research :Nil

Industry :Nil

others :Nil

**Area of Specialization:** Operating Systems, Object-Oriented Programming Language

**Courses taught at Under Graduate Level:** Principles of Programming Languages, Operating systems, Discrete Mathematics, Introduction to Digital Marketing

Research guidance : Nil

Projects Carried out : Nil

Patents : Nil

Technology Transfer : Nil

Research Publications :

1. A paper is published on “A Proposal of Scala Script Generation Tool for Extract Transform Load (ETL) Operations” in International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN: 2321-9653; July 2020, Volume 8 Issue VII.

2. A paper is published on “Disease Prediction System in New Normal” in International Journal of Scientific Research & Engineering Trends (IJSRET), Volume 7, Issue 3, ISSN (Online): 2395-566X, May-June-2021.

3. A paper is presented on “Early Stage Disease Prediction Using Machine Learning and Image Processing” in 6th International conference on “Internet of things, next generation networks and cloud computing” ,ICINC-2021, 22ND & 23RD MAY 2021 AT SKNCOE, PUNE
4. A paper is presented on "An insight into the technologies required for building an AI based Help Desk", International Conference on Emerging Trends in Engineering and Technology (ICETET-2021) ,7-8 july 2021 organized by Sandip Institute of Engineering and Management, Nashik sponsored by Institute For Engineering Research and Publication (IFERP)
5. A paper is published on “Use of Flipped Classroom Activity as an Active Learning Strategy: An Experimental Analysis “ in Multidisciplinary Journal of Research in Engineering and Technology (MJRET) Volume 7 No.3 Pg. 1-6, eISSN:2348-6953, September 2020.
6. A paper is presented on “Network Intrusion Detection system (NIDS) for Real-Time data using Naive Bayes” in cPGCON held at PICT on 29th March 2013-30th March 2013.
7. A paper is presented on “Intrusion Detection System (IDS) using Lightweight for Wireless Networks” in National Conference on Emerging trends in agent Computer Engineering held at RSCOE, Pune in March 2012.
8. A paper is published on “Network Intrusion Detection System (NIDS) based on Data Mining” in International Journal of Engineering, Science and Innovative technology (IJESIT) volume-2, Issue-1 January 2012.



- i. Name : Dr. Shital Sachin Barekar
- ii. Date of Birth : 19 July 1979
- iii. Unique id : 1-466102149
- iv. Educational Qualifications : Ph.D
- v. Work Experience :
- . Teaching : 19 Years
  - . Research : 07 Years
  - . Industry : 01 Years
  - . Others : Nil
- vi. Area of Specialization : VLSI, Memory design, Fault detection in static random access memory
- vii. Courses taught at Under Graduate level : Digital Electronics and Logic Design, Microprocessor Interfacing Techniques, Microprocessors and Micro-controllers, Electronic Devices and Circuits, Microprocessor Architecture, Internet of Things, Digital Systems and computer Organization
- viii. Research guidance : Nil
- .No. of paper published in conferences : 10
  - .No. of paper published in journals : 7
  - .Masters completed : Nov 2009
  - .PhD : July 2021
- ix. Projects Carried out : Nil
- x. Patents : Nil
- xi. Technology Transfer : Nil

xii. Research Publications

:

- [1] M. Mali, M. Sutaone, and S. Tak, "Gating transistor power saving technique for power optimized code book SRAM," *Proc. Int. Conf. Adv. Comput. Commun. Control. ICAC3'09*, pp. 581–584, 2009, doi: 10.1145/1523103.1523220.
- [2] M. Mali, M. Sutaone, and S. Tak, "5Gbits/sec, 300mV precharge, 256b, low power rhythmic SRAM," *ARTCom 2009 - Int. Conf. Adv. Recent Technol. Commun. Comput.*, pp. 554–558, 2009, doi: 10.1109/ARTCom.2009.223.
- [3] M. Mali, M. S. Sutaone, M. Bhalerao, and S. Tak, "Deep submicron implementation of gating transistor power saving technique for power optimized code book SRAM," *2009 4th IEEE Conf. Ind. Electron. Appl. ICIEA 2009*, pp. 2616–2619, 2009, doi: 10.1109/ICIEA.2009.5138681.
- [4] S. Tak and M. Mali, "Fault tolerant SRAM by redundant array structure," *2015 Int. Conf. Pervasive Comput. Adv. Commun. Technol. Appl. Soc. ICPC 2015*, vol. 00, no. c, pp. 0–3, 2015, doi: 10.1109/PERVASIVE.2015.7087128.
- [5] M. Mali and S. Barekar, "Detection of resistive open defect fault in SRAM memory array structure for reliability against failures," *Test Eng. Manag.*, vol. 82, no. 3–4, 2020.
- [6] M. Mali and S. Barekar, "Bridging defect detection for fault diagnosis of on-chip cache memory," *Test Eng. Manag.*, vol. 83, 2020.
- [7] S. Barekar, M. Mali, C. Gosavi, "Fault tolerant SRAM array structure for reliability enhancement against failures," *Journal of Critical Reviews*, vol. 7, no. 9, pp. 2054-2061, May 2020.
- [8] S. Barekar, M. Mali, A. Khade, "Sensitizing Defects in Static Random Access Memory using Built-In Self-Test," *J. Solid State Technology*, vol. 63, no. 6, pp. 7024-7032, Nov 2020.
- [9] S. Tak-Barekar, M. Mali, "Efficient Resistive Defect Detection Technique for Performance Enhancement of Static Random Access Memory" – Int Conference – ICDSMLA20, Dec 2020.

xiii. No. of Books published with details

: Nil



- i. Name :Prakash Gulab Date
- ii. Date of Birth :18/10/1984
- iii. Unique id :1-431280653
- iv. Educational Qualifications :M.E Computer Engineering
- v. Work Experience:
- Teaching : 13 Yrs
  - Research :
  - Industry :
- vi. Area of Specialization :Data Structures & Algorithms,Computer Organization
- vii. Courses taught at under Graduate level : Data Structures & Algorithms I, Computer Organization  
Data Structures & Algorithms II,
- viii. Research guidance :Nil
- ix. Projects Carried out :Nil
- x. Patents :Nil
- xi. Technology Transfer :Nil
- xii. Research Publications :1  
Presented technical paper on “ Proximity based and security aware rewarding system for mobile marketing”,in IEEE conference CASP-2016.
- xiii. No. of Books published with details :Nil



- i. Name : Shilpa Pravin Pant
- ii. Date of Birth : 27<sup>th</sup> August 1981
- iii. Unique id : 1-431280615
- iv. Educational Qualifications : M.E.(Computer Science & Engineering)  
B.E.
- v. Work Experience:
- Teaching :13 years
  - Research :Nil
  - Industry :Nil
  - Others :Nil
- vi. Area of Specialization : Digital Electronics, Computer Organization, Microprocessor
- vii. Courses taught Under Graduate level : Digital electronics and Logic Design,  
Computer Organization and architecture,  
Microprocessor Architectures,  
Digital Systems and computer Organization
- viii. Research guidance : Nil
- ix. Projects Carried out :Nil
- x. Patents :Nil
- xi. Technology Transfer :Nil
- xii. Research Publications :

Research Publications National : 04

- A paper is published on “Relevance Feedback for CBIR” in national conference NCFCA at AISSMS Pune on 24 Dec 2009.
- A paper is published on “Speaker Identification And Recognition” in national conference NCFCA at AISSMS Pune on 24 Dec 2009.
- A paper is published on “Relevance Feedback for CBIR using Image Processing” in national conference NCAC09, G H Patel College of Engineering and Technology, Vallabh Vidyanagar during December 12-13, 2009.

- A paper is published on “Speech Recognition” in national conference NCAC09, G H Patel College of Engineering and Technology, Vallabh Vidyanagar during December 12-13, 2009.

Research Publications InterNational : 01

A paper is published on “Content Based Image Retrieval Using Color Feature” in International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181, Vol. 2 Issue 4, April - 2013

xiii. No. of Books published with details :Nil



**.Name:** Sushila S. Shelke

**.Date of Birth:** 5<sup>th</sup> July 1985

**.Unique ID:** 1-431280657

**.Education Qualification:** M.E. (Computer Engineering), Ph.D. (Pursuing)

**.Work Experience**

**.Teaching : 12 Years**

.Research : 03 Years

.Industry : 02 Years

.Others : NIL

**.Area of Specialization:** Social Network Analysis, Data Mining

**.Courses Taught at Undergraduate Level:**

.SPPU-2008 Course (Principles of Programming and Problem Solving-SE, Principles of Programming Languages-TE)

.SPPU-2012 Course (Theory of Computation-TE, Principles of Concurrent and Distributed Programming-TE)

.Autonomy- Discrete Mathematics (S.Y. B. Tech), Big Data Analytics (B. Tech-OE)

.Research guidance: NIL

.Projects Carried out : NIL

.Patents : NIL

.Technology Transfer : NIL

.

**.Research Publications :**

- .1. S. Shelke and V. Attar, "Role of Various Features in Identification of Rumors in the Social Network," *2021 12th International Conference on Computing Communication and Networking Technologies (ICCCNT)*, 2021, pp. 01-06, doi: 10.1109/ICCCNT51525.2021.9579856.
- .2. S. Shelke and V. Attar, "Origin Identification of a Rumor in Social Network," in *Cybernetics, Cognition and Machine Learning Applications*, Springer, 2020, pp. 89–96.
- .3. S. Shelke and V. Attar, "Source detection of rumor in social network - A review," *Online Soc. Networks Media*, vol. 9, pp. 30–42, 2019.
- .4. S. S. Shelke and S. A. Itkar, "Directed Graph based Distributed Sequential Pattern Mining Using Hadoop MapReduce," *Int. J. Recent Innov. Trends Comput. Commun.*, vol. 3, no. 2, pp. 431–437, 2015.
- .5. S. S. Shelke and S. A. Itkar, "A Review on Sequential Pattern Mining Algorithms," *Int. J. Electr. Electron. Comput. Eng.*, vol. 4, no. 1, p. 14, 2015.
- .6. S. S. Shelke and S. A. Itkar, "Sequential Pattern Mining and Distributed Sequential Pattern Mining: A Survey and Future Scope" published in ICACCE 2014

.

**.No. of Books published with details : NIL**



- i. Name : Swati Gangaram Shirsath
- ii. Date of Birth : 13<sup>th</sup> December 1986
- iii. Unique id :
- iv. Educational Qualifications : ME pursuing
- v. Work Experience :
- Teaching : 10.7 years
- Research :
- Industry :
- Others :
- vi. Area of Specialization : Machine Learning, Deep Learning
- vii. Courses taught :
- Under Graduate level : Discrete Maths, Software Engineering
- viii. Research guidance :
- No. of papers published in National/ International Journals/  
Teaching and Learning System for Programming -A Literature Study to Develop Logic for  
Programming through Puzzles(International Journal of Innovations in Engineering and  
Technology (IJIET))
- ix. Projects Carried out :
- Task Tracker, Health check application  
My Pune Mobile App  
A web-based application for legal services  
Web Based Application For Client And  
Dealer Of Outdoor Advertisers (Billboards).
- x. Patents :
- xi. Technology Transfer :
- xii. Research Publications :
- xiii. No. of Books published with details : Discrete Mathematics Published on  
Amazon kindle (ASIN: B07F7LT1Y6)



- i. Name : MS. Vaishali Salgar
- ii. Date of Birth : 25<sup>th</sup> June 1978
- iii. Unique id : 1-431749799
- iv. Educational Qualifications : ME Computers
- v. Work Experience :
- Teaching : 12
  - Research : Nil
  - Industry : Nil
  - Others : Nil
- vi. Area of Specialization : Image Processing, Computer Graphics, Programming  
Languages (Java, Python, Android, Open CV)
- vii. Courses taught :
- Under Graduate level :
    - Computer Graphics,
    - System Programming and Operating System,
    - Digital Signal Processing,
    - Image Processing
    - Programming skill Development laboratory (PSDL)
    - Programming Paradigm
- viii. Research guidance :
- No. of papers published in National/ International Journals/
  - Master :
    1. “Integrated Approach for Content Based Image Retrieval (CBIR)” International Conference and workshop on Emerging Trends in Technology at Mumbai, February 2010 (Shortlisted for Poster Presentation)
    2. “Content Based Image Retrieval using Integrated Approach “ International Seminar & Call for Papers on IT In Academics, Sinhgad Institute of Management, Pune , February 2009
    3. “Content Based Image Retrieval Framework and MPEG -7 Texture Descriptors” National Level Conference on Emerging Trends in I.T. P.E.S. college of Engg. at Aurangabad. , January 2008

- Ph.D.

ix. Projects Carried out : Nil

x. Patents :Nil

xi. Technology Transfer :Nil

xii. Research Publications :Nil

xiii. No. of Books published with details :Nil

i. Name : Rita Shrikant Patil

ii. Date of Birth : 27/01/1982

iii. Unique id : 1-1509556193



iv. Educational Qualifications : PhD Pursuing

v. Work Experience : 16 Years

- Teaching : 15 Years
- Research : -
- Industry : 1 Years
- Others :----

vi. Area of Specialization : Natural Language Processing, Data Science, Artificial Intelligence, Deep Learning, Computer Networks

vii. Courses taught :

- Under Graduate level :

Computer Networks,  
Data communication and Wireless sensor networks,  
Database Management Systems,  
Object oriented Programming,  
Programming skill development Laboratory,  
Software Engineering and Project management,  
Software Design Modeling and Testing,  
Fundamental of Computer Networks,  
Information and Cyber Security

viii. Research guidance : NA

ix. Projects Carried out : NA

x. Patents : NA

xi. Technology Transfer : NA

xii. Research Publications :

Sr. No.	Title of Research Paper	Presentation /Publication details	Date of publication / presentation	Sponsored	Indexing
1	“A Survey On Various Methods Used In Named Entity Recognition For Hindi Language”	Paper Presented and published in IEEE “International Conference on Emerging Smart Computing and Informatics” ( <b>IEEE – ESCI 2020</b> ) 12 <sup>th</sup> , 13 <sup>th</sup> & 14 <sup>th</sup> March 2020	May-June 2020 ISSN: 0193-4120 Page No. 23506 – 23513 h-index 5 overall Rank/Ranking 31671 SCImago Journal Rank (SJR)0.1	IEEE Pune section.	Scopus
2	"A Novel Approach for Named Entity Recognition on Hindi Language using Residual BiLSTM Network"	International Journal on Natural Language Computing ( <b>IJNLC</b> ) Vol.9, No.2	April 2020	AIRCC Publishing Corporation	Google Scholar
3	"A Residual Network Architecture for Hindi NER using Fasttext and BERT embedding layers"	UGC-CARE Approved Group- II Journal, NOVYI MIR Research Journal, ISSN : 0130-7673, Vol.6 Issue 6	June 2021	UGC Approved	UGC
4	“ Review based on Named Entity Recognition for Hindi Language using ML approach” <b>Accepted</b>	International Conference on Mechanical and Energy Technologies ( <b>ICMET-2021</b> ).  Paper recommended for publication in Smart Innovation Systems and	October 28-29, 2021  Paper accepted for Conference and will be published	Conference in Greater Noida, India, Galgotias College of Engineering and Technologies	Springer (Scopus Indexed)

		Technologies (SIST)			
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**xiii. No. of Books published with details : NA**



- i. Name : Nilofer Shrenik Kittad
- ii. Date of Birth : 19/ 08/ 1983
- iii. Unique id : 1-1507974002
- iv. Educational Qualifications : M Tech Computer
- v. Work Experience :
- . Teaching : 12 yrs
  - . Research : Nil
  - . Industry : Nil
  - . Others : Nil
- vi. Area of Specialization : Database,Data mining,HCI.
- vii. Courses taught at Under Graduate level : Database management System, Object Oriented Modeling and Design, Software Engineering, Human Computer Interaction, Data Mining Data Warehousing
- viii. Research guidance : NA
- ix. Projects Carried out : NA
- x. Patents : NA
- xi. Technology Transfer : NA
- xii. Research Publications : NA
- xiii. No. of Books published with details : NA



- i. Name : Mahendra Prabhakar Deore
- ii. Date of Birth :01/01/1983
- iii. Unique id : 1-1509715974
- iv. Educational Qualifications : M.Tech. (IT), Ph.D pursuing
- v. Work Experience :
- Teaching :14 Years
  - Research :Nil
  - Industry :Nil
  - Others :Nil
- vi. Area of Specialization :Computer Networks, Cyber Security, Big Data.
- vii. Courses taught at Under Graduate level : Computer Networks, Computer Forensics & Cyber Security, Data Communication and Wireless sensor Networks,Airtificial Intelligence and Machine Learning, Operating System,Network Infromation System, Programming Laboratory-II, IV, Mobile Application,Airtificial Intelligence and machine learning.
- viii. Research guidance :Nil
- ix. Projects Carried out :Nil
- x. Patents :Nil
- xi. Technology Transfer :Nil
- xii. Research Publications :
- 1) H K Sawant, Mahendra P Deore, “A comprehensive Review Of Image Enhancement Techniques ”, International Journal of computer Technology & electronics Engineering, E-ISSN 2249-6343, IJTCEE/Vol.I/ Issue II/OctoberDecember, 2011
  - 2) H K Sawant, Mahendra P Deore, “Content-Base Image Retrieval And Pattern Classification”, Journal Of Information, Knowledge And Research In Information Technology, E-ISSN: 0975 – 6698| NOV 10 TO OCT 11 VOLUME – 01, ISSUE02

3) M. P. Deore,U.V.Kulkarni "Malware Classification Using Machine Learning: A Survey", Journal of Advanced Research in Dynamical and Control Systems (JARDCS),vol.10,Issue no.10,pp.181-190 ,Sep 2018.

4) M. P. Deore and U.V.Kulkarni, "Malware Detection Techniques and it's Classification: A Survey", International Journal of Research in Electronics AND Computer Engineering (IJRECE),vol.6,Issue no 4, pp.63-71 ,Oct-Dec 2018.

5) M. P. Deore and U.V.Kulkarni, "Static Way of Effective Feature Extraction and Malware Classification", Online International Interdisciplinary Research Journal, International Conference on Recent Multidisciplinary Research (ICRMR-2018), Organized and Hosted by Foundation of Innovative Research at conference center, AIT,Thailand ,vol.8 ,Issue 2, pp.81-93 ,Dec 2018

**xiii. No. of Books published with details :Nil**



**Name:** Gitanjalee Subhash Salunkhe

**Date of Birth:** 20/07/1988

**Designation:** Assistant Professor

**Qualification:** Mtech(CSE)

**Experience:** Teaching: 10 years

**Area of Interest:** Data Analytics, Security, Data Structures, TOC

**Courses Taught:** Data Structures, Theory of Computation, Object oriented programming, Operating Systems, Principles of programming Languages, Information security

Research guidance :Nil

Projects Carried out :Nil

Patents :Nil

Technology Transfer :Nil

No. of Books published with details : Nil

**Paper Presented/ Published**

“A Novel Approach for Deep Web Data Records Extraction using Visual Features” in International Journal COMPUTER APPLICATIONS IN ENGINEERING, TECHNOLOGY AND SCIENCES (IJ-CA- ETS) ISSN: 0974-3596 | APRIL 2012- SEPTEMBER 2012 | Volume 4 : Issue 2| Page: 1

**Membership of Scientific and Professional Society**

ISTE Life Membership.

**Workshops Attended:**

Sr. No.	Courses/training attended	Duration	Remarks / organized by
1	10 days STTP Workshop on DBMS	2week	IITB under MHRD
2	“FOSS” STTP workshop	2 week	IITB under MHRD
3	FDP TEQUIP Workshop on HPC	1 week	Walchand College of Engg. Sangli
4	Workshop on “Research Methodology”	3 days	WCE Sangli
5	FDP on OOMP.(Syllabus Change)	1 day	PICT,Pune
6	Seminar on HiPC	2 day	CCOEW Pune
7	TEQIP on Natural Language Processing using Python	1 <sup>st</sup> to 5 <sup>th</sup> September 2020,	Jaipur Engg College and research centre ,Jaipur,
8	FDP on “ Data Science for engineering problem solving”	5 <sup>th</sup> to 10 <sup>th</sup> October 2020	Department of Computer Engineering SKNCOE Pune
9	FDP on “ Data Science and AI”	26 <sup>th</sup> to 30 <sup>th</sup> July 2021	Department of IT of MMCOE Pune
10	FDP: Outcome based Education	19,20,21 august 2021	CCOEW, Pune
11	–FDP on “Emerging Trends in Deep Learning and Its Applications”	23 <sup>rd</sup> NOV to 5 <sup>th</sup> Dec 2020	Department of Computer Engineering Dr. D. Y. Patil Institute of Technology, Pimpri
12	FDP on "Cyber Security ”	6/10/20 to 10/10/20	AICTE Training And Learning (ATAL) Academy Online FDP at Poornima Institute of

			Engineering & Technology.
<b>13</b>	STTP on “Supervised and Unsupervised Machine learning using google cloud”	2/11/20 to 7/11/20	Electronics & Communication Engg dept RMK college of engg and technology Tiruvallur.
<b>14</b>	STTP on “Python & Mobile application development”	24 <sup>th</sup> to 29 <sup>th</sup> Sept 2020	Information Science and Engg dept HKBK college of engg Bengaluru
<b>15</b>	FDP on “Cyber Security” conducted by FDC PMMMNMTT –	4 <sup>th</sup> to 9 <sup>th</sup> November 2019,	FDC Shivaji University, Kolhapur hosted by Computer Engg. Department, Cummins College of Engineering for Women, Pune.
<b>16</b>	FDP on “Data Science” conducted by FDC PMMMNMTT	2/12/19 to 7/12/19	FDC Shivaji University, Kolhapur hosted by IT Department, Cummins College of Engineering for Women, Pune.
<b>17</b>	FDP on “Python Programming and fuzzy system”	18/5/20 to 22/5/20	Computer Engg dept jspm narhe technical campus pune
<b>18</b>	FDP on “Python”	18 <sup>th</sup> to 23 <sup>rd</sup> may 2020	ENTC dept SKN Sinhgad college of engg pandharpur in association with spoken tutorial IIT bombay
<b>19</b>	Faculty Development Program on “Use of Moodle as LMS”	26th June to 3rd July 2020	Pedagogy Cell of Cummins College of Engineering for Women, Pune.



i. Name : Ms. Jyoti Limchand Bangare

ii. Date of Birth : 04 - 06 - 1986

iii. Unique id : 1-3536974724

iv. Educational Qualifications : ME Computer

**v. Work Experience:**

.Teaching : 10 Years

.Research : Nil

.Industry : Nil

.Others : Nil

vi. Area of Specialization : Machine Learning, Software Engineering, Software Testing, Green Computing, Project Management

vii. Courses taught at Under Graduate level : Database Management Systems, Web Technology, Operating Systems, Fundamentals of Programming Languages I, Fundamentals of Programming Languages II, Software Project Management, Software Testing and Quality Assurance, Theory of Computation, Software Engineering, Computer Networks, Computer Graphics, Software Design Architectures, Java Full Stack Technology, Data Communication and Wireless sensor Network, Embedded Operating System, Data Mining and Data warehousing

**viii. Research guidance** : Nil

ix. Projects carried out : Nil

x. Patents : 02

Sr. No	Patent / Copyright	Applicant	Status of Application (Filed / Published / Granted)	Academic Year
1	“Integrating The Block-Chain Technology Into A Mobile Health System”	Ms. Jyoti Bangare	<b>Published</b> Application No. 202111020602 A Date of filing of application : 06/05/2021 Publication Date: 30/07/2021	2021 - 22
2	“Cloud based Online Crime Reporting System”	Ms. Jyoti Bangare	<b>Published</b> Application No. 202141013029 A Date of filing of application : 25/03/2021 Publication Date: 02/04/2021	2020 - 21

xi. Technology Transfer : Nil

xii. Research Publications : 02

Sr. No.	Author	Type of Journal / Conference	Paper Title	Volume / Issue	Date	Link
1	Mrs.Jyoti Chinchole	International journal of Engineering Research and Applications (IEJRA)	Network Intrusion Detection System	ISSN:2248-9622,Vol. 4,Issue 4	April 2014	
2	Ms. Jyoti Bangare	Journal of Emerging	A Review: Federated	ISSN: 2349-5162	August 2021 31/8/2021	<a href="https://www.jetir.or">https://www.jetir.or</a>

		Technologies and Innovative Research (JETIR)	Learning for Health care application			g/view? paper=JETIR2108637
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xiii. No. of Books published with details : 01

<b>Sr. No.</b>	<b>Title</b>	<b>Publisher</b>	<b>Publication details</b>	<b>Publ'n Year</b>	<b>Authors</b>
1	Advanced Database Management	Nirali Publication	ISBN:978-93-82448-38-9	2012	Shailaja Uke Pallavi Bangare Jyoti Chinchole Chirag Raichura