

Name of Teaching Staff Designation Department	:	Dr. Vishakha Mangesh Shelke Assistant Professor Computer Science and Engineering (IoT and Cyber Security with Block Chain Technology)
Date of Joining the Institution Email ID	:	21 st November 2022 vishakha.shelke@djsce.ac.in
Office Contact	:	vishakhashelke21@gmail.com
		
Google Scholar Link	:	https://scholar.google.com/citations?user=WGKXtYQAAAAAJ&hl=en
ORCID	:	https://orcid.org/0000-0002-5488-2569
Qualifications with Class / Grade	:	- PhD in Computer Engineering (2025) from Ramrao Adik Institute of technology, Nerul, D.Y. Patil University - M.E [Computer] (2014) from R.M.D Sinhgad School of Engineering, Warje, Savitribai Phule Pune University with CGPA 7.47 (First Class) - B.E (2008-09) from K.B.P College of Engineering and Polytechnic, Satara, Shivaji University, Kolhapur with Distinction (73.79%)
Total Experience in Years	:	17 Years - Working as Assistant professor , Computer Science & Engineering (IoT and Cyber Security with Blockchain Technology) at D.J. Sanghvi College of Engineering from November-2022 to Till Date - Worked as as Assistant Professor, Head of Data Engineering department at Universal College of Engineering,Mumbai from March 2022 to November-2022 - Worked as as Assistant Professor, Computer Engineering department at Universal College of Engineering,Mumbai from July 2014 to March 2022 - Worked as Lecturer in Deparment of Computer Technology at Sardar Vallabhbhai Patel Polytechnic, Borivali ,from July 2013 to June 2014 - Worked as Lecturer in Deparment of Computer Engineering at Zeal Education Society's Dnyanganga Polytechnic, Narhe Pune from July 2010 to June 2013 - Worked as Lecturer in Deparment of Computer Engineering at Abhaysinhraje Bhonsle Institute of Technology (polytechnic), Satara from July 2009 to June 2010

Paper Publication	: Total Publication- 43 Scopus Indexed Conference Publication- 14 UGC Care Journal Publication- 17 Journal Publication-06 Book Chapter:03 Journal Publication- (Under Review-6) Patent-03 Patent: 1. Title: An apparatus for filament revival Patent Application Number:202521037793 Filing Date:18/04/2025 Publicatrion Date:09/05/2025 Status- Published (Under Examination) 2. Title: Gesture to Speech Converter Patent Application Number: 202521073771 Filing Date:2/08/2025 Publicatrion Date:15/08/2025 FER: 20/03/2026 FER Reply:23/03/2026 Status- FER Sumitted Status: FER Submitted 3. Title: An Electronic Tactile Crossword Puzzle Board Patent Application Number: 202621102531 Filing Date:25/08/2026 Status: Published Research Paper Publication 2025-26 1. Vishakha Shelke et.al., Intelligent Security Surveillance System Based on Multi-Modal Object Detection and Edge Computing, ITEGAM- Journal of Engineering and Technology for Industrial Applications (ITEGAM-JETIA DOI: https://doi.org/10.5935/jetia.v12i58.2944) 2. Vishakha Shelke et.al., Color Space Fusion for Semantic Segmentation in Indian Adverse Weather Driving Scenes, 6th Biennial International Conference on Nascent Technologies in Engineering (ICNTE) DOI: https://doi.org/10.1109/icnte66387.2026.11437419 3. Vishakha Shelke et.al., Collision Avoidance in Low Earth Orbit: Review" atthe International Conference on Sustainable and Futuristic Technologies (ICSFT 2026), technically sponsored by IEEE Pune Section and organized by Marathwada Mitra Mandal's College of Engineering, Pune, held on 24th and 25th April 2026 4. Vishakha Shelke et.al., Facelink: AI-Based Attendance Management System, Lecture Notes in Networks and Systems, 2026 Book chapter
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		a. DOI: 10.1007/978-3-032-14038-8_16 b. Part of ISBN: 9783032140371 a. Part of ISBN: 9783032140388 b. Part of ISSN: 2367-3370 c. Part of ISSN: 2367-3389 5. Vishakha Shelke et.al., Influencer Ranking Framework Using TH-DCNN for influence maximization, Procedia Computer Science, Elsevier, https://doi.org/10.1016/j.procs.2025.01.018 6. Vishakha Shelke et.al., Transformative Drug Research using Augmented Generative AI, Intelligent Decision Technologies, https://doi.org/10.1177/18724981251354967 7. Vishakha Shelke et.al., Smart Bins, Smarter Cities: IoT-Driven Waste Collection with Real-Time Sensing and Methane Mapping, Mathematical Modelling of Engineering Problem, https://doi.org/10.18280/mmep.120626 8. Vishakha Shelke et.al., Hierarchical Community Detection and Network Analysis: A 2-Level Approach for Social Media Networks, 2025 International Conference on Emerging Smart Computing and Informatics Esci 2025 a. DOI: https://doi.org/10.1109/esci63694.2025.10988197 b. EID: 2-s2.0-105007282660 c. Part of ISBN: 9798331515683 9. Vishakha Shelke et.al., Saathi: Smart Cane, 2025 International Conference on Emerging Smart Computing and Informatics Esci 2025 a. DOI: https://doi.org/10.1109/esci63694.2025.10988086 b. EID: 2-s2.0-105007287497 c. Part of ISBN: 9798331515683 10. Vishakha Shelke et.al., Indian Sign Language Communication Using LSTM, MediaPipe Holisitic and Llama, Advances in Intelligent Systems Research a. 2025 Book chapter b. DOI: https://doi.org/10.2991/978-94-6463-740-3_21 c. Part of ISBN: 9789464637397 d. Part of ISBN: 9789464637403 e. Part of ISSN: 2731-7870 f. Part of ISSN: 1951-6851 11. Vishakha Shelke et.al., Defendr : Smart Contract Vulnerability Scanner, 2025 International Conference on Emerging Trends in Industry 4.0 Technologies (ICETI4T) a. DOI: https://doi.org/10.1109/iceti4t63625.2025.11132110
	2024-25	1. Vishakha Shelke et.al., Influence Spread Analysis with Combined Approach of Centrality Measures and Similarity Based Link Prediction over Diffusion Model, 2024 International Conference on Artificial Intelligence and Quantum Computation Based Sensor Applications Icaiqsa 2024 Proceedings

		DOI: https://doi.org/10.1109/icaiqsa64000.2024.10882296 , EID: 2-s2.0-105000171132, Part of ISBN: 9798331517953 2. Vishakha Shelke et.al., Context propagation based influence maximization model for dynamic link prediction, Intelligent Decision Technologies, DOI: https://doi.org/10.3233/idt-230804 EID: 2-s2.0-85210282145, Part of ISSN: 18724981 18758843 3. Vishakha Shelke et.al., A comparative approach for speech emotion recognition using CNN and branch CNN, Research Advances in Intelligent Computing Volume 2, 2024 Book chapter Part of DOI: https://doi.org/10.1201/9781003433941-5 EID: 2-s2.0-85205494743 Part of ISBN: 9781032561165 9781040010433 2023-24 1. Vishakha Shelke et.al., Node Degree Classification using Graph Modelling, Proceedings of 3rd International Conference on Advanced Computing Technologies and Applications Iacta 2023, DOI: https://doi.org/10.1109/icacta58201.2023.10393394, EID: 2-s2.0-85184809410, Part of ISBN: 9798350348347 2. Vishakha Shelke et.al., Link Prediction using GraphSAGE, Proceedings of 3rd International Conference on Advanced Computing Technologies and Applications Iacta 2023, DOI: https://doi.org/10.1109/icacta58201.2023.10393573, EID: 2-s2.0-85184821344, Part of ISBN: 9798350348347 2022-23 1. Vishakha Shelke et.al., Influence spread analysis a dimension to improve performance for epidemic diffusion models for scalable social networks, 2023 14th International Conference on Computing Communication and Networking Technologies ICCCNT 2023 DOI: https://doi.org/10.1109/icccnt56998.2023.10306466 EID: 2-s2.0-85179851754 Part of ISBN: 9798350335095 2021-22 1. “Virtual Ally: UCoE Campus Navigation System using Tableau”, International Journal of Computer Engineering in Research Trends (IJCERT), Volume 9, Issue 3, March 2022 , pp.59-65 2. “Fundraising Through Blockchain”, ‘International Journal of Computer Engineering in Research Trends (IJCERT), Volume 9 Issue 04 April 2022 3. “Diabetic Retinopathy Detection”, International Journal for Research in Applied Science & Engineering Technology, Volume 10, Issue IV, April 2022 4. “Text Summarization: Providing a Summary of any given input in a different language”, Journal of Emerging Technologies and Innovative Research (ISSN : 2349-5162), Volume 9 Issue 4 , April 2022
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	2020-21 1. "Searchious: Finding missing people using an optimized face recognition algorithm" on April 10, 2021 at Scopus Indexed IEEE Conference 5th IEEE International Conference on Computing Methodologies and Communication [ICCMC 2021] organized by Surya Engineering College, Erode, India. 2. "Depressscape: Depression Monitoring Through Social Media" on April 29, 2021 at International Conference on Smart Data Intelligence (ICSMDI 2021) organized by Kongunadu College of Engineering and Technology, Trichy, Tamil Nadu, India publication- ELSEVIER-SSRN Digital Library 3. "Thing Translator: An Efficient Way to Classify Different Things" on April 29, 2021 at International Conference on Smart Data Intelligence (ICSMDI 2021) organized by Kongunadu College of Engineering and Technology, Trichy, Tamil Nadu, India. publication-ELSEVIERSSRN Digital Library 4. "Stock Market Prediction using Deep Learning", International Research Journal of Engineering and Technology (IRJET) Volume 8, Issue 4, April 2021 2019-20 1. "Automated Face Detection And Swapping In Video" in Scopus indexed International Conference on Advanced Scientific Innovation in Science, Engineering and Technology, ICASISSET 2020, 1617 May 2020, Chennai, 2. 10 "Agrobot: NLP based Image and Text Query Chatbot", Published in Blue Eyes Intelligence Engineering and Sciences Publication', International Journal of Recent Technology and Engineering (IJRTE)', ISSN: 2277-3878, May 2020 3. "Stock Market Prediction and Recommendation", Journal of Emerging Technologies and Innovative Research (JETIR), ISSN:2349-5162, April 2020 4. "Proautomation: An Efficient Student Project Planning and Tracking System", Sustainable Humanosphere Journal, ISSN: 1880-6503, March 2020 5. International Journal of Recent Technology and Engineering (IJRTE)', ISSN: 2277-3878, May 2020 6. "Stock Market Prediction and Recommendation", Journal of Emerging Technologies and Innovative Research (JETIR), ISSN:2349-5162, April 2020 7. "Proautomation: An Efficient Student Project Planning and Tracking System", Sustainable Humanosphere Journal, ISSN: 1880-6503, March 2020 2018-19 1. "Performace Evaluation of employee using opinion mining", International Journal of Computer Technology and Application, ISSN:2229-6093, April 2019 2. "Unwind Mobile data offloading", Journal of Emerging Technologies and Innovative Research, JETIR1904478, ISSN: 2349-5162, 2019 3. "Agriculture Advisory System Based on Weather Prediction and
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		Crop selection using machine learning", International Journal of Research and Analytical Reviews (IJRAR),19H1069,ISSN: 2348-1269,2019 4. "Case Prediction using machine learning", International Journal of Research and Analytical Reviews (IJRAR),19H1063,ISSN: 2348-1269, 2014-15 1. Vishakha Dhumal et al., "Fine grained access control in cloud computing using Hierarchical CP- ASBE with scalability and flexibility",CPGConference,Elsevier, March 2014 2. Vishakha Dhumal et al., "Hierarchical CP-ABE Scheme implementation on Amazon EC2 cloud ",International Journal of Science and Research (IJSR) ,ISSN(Online):. 2319-7064, July 2014 3. Vishakha Dhumal et al., "Hierarchical CP-ASBE in cloud computing for fine grained access control with scalability and flexibility", International Journal of Advanced Research in Computer Scienceand Software Engineering (IJARCSSE),ISSN(Online):. 2277- a. 128X , 2013
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Consultancy Project	:	• Mentor for AMPL Outhouse Project for Inventory Management Module • Mentor for Visiting Bill Remuneration Project
Area of Specialization	:	Advanced Data Structures and Algorithms, Blockchain Technology, Social Network Analysis, Machine Learning, Big Data Analytics
Book Published	:	Book Title: " Thing Translator: An Efficient Way to Classify Different Things", published by Eliva Press SRL Publication, Europe,Registration No. 1020600000328 Publication Link- https://www.elivapress.com/en/book/book-6323879269/
Reviewer	:	• Contributed to a review of research papers for the International Conference on Smart Systems for Sustainable Development using Advanced Computational Techniques organized at Kuppam Engineering College, Andhra Pradesh • Served as a reviewer for the 1st International Conference on Smart Systems for Sustainable Development using Advanced Computational Techniques (ICSSA 2025) from 10–11 October 2025. • Served as a reviewer for the IEEE International Conference on Communication, Computing and Emerging Technologies (IC3ET 2026), technically cosponsored by IEEE and IEEE Maharashtra Section, held at Vidyavardhini College of Engineering and Technology, Vasai on 10th February 2026 • Served as a reviewer for the 8th IEEE International Conference on Emerging Smart Computing and Informatics (IEEE-ESCI 2026), held from 11th to 13th March 2026 at AISSMS Institute of Information Technology, Pune. • Served as a Session Chair at the International Conference on Smart Systems for Sustainable Development (ICSSSD) held

		at M.H. Saboo Siddik College of Engineering, April 2026. • Served as a reviewer for the International Conference on Computational Algorithms and Communication Techniques in Engineering Applications (ICCAT 2026) organized by PVKK Institute of Technology, Anantapur. • Served as a reviewer for the Scopus indexed (Q1) journal Multimedia Tools and Applications in April 2026
Interaction with Professional Institutions	:	• Served as a Session Chair at the International Conference on Smart Systems for Sustainable Development (ICSSSD) held at M.H. Saboo Siddik College of Engineering on 15th April 2026 • Served as a judge for Oscillations 2026 – Technical Paper Presentation at Vidyavardhini College of Engineering and Technology on 1st April 2026 • Served as a Session Chair for Track – Smart Computing at the 8th IEEE International Conference on Emerging Smart Computing and Informatics (IEEE-ESCI 2026), held at AISSMS Institute of Information Technology, Pune, on 12th March 2026 • Conducted session on BE project thesis writing for BE Computer engineering student on 8th April 2022 at UCoE • Conducted a session on “Research paper writing”, for BE Computer students , on 04th February 2022 at UCoE • Conducted session for First year students on Human Values “Harmony in Family and Society” on Tuesday, 28th December 2021 in Student Induction Program (Phase I) • Invited as Resource person for “LaTex Workshop” , Conducted 2 days’ workshop on "Technical report wiring using LaTex", hands on session in K.B.P. College of engineering, Satara, Oct-2018 • Conducted "Prolog Programming" , Hands on session of students of universal college of engineering under CSI • Conducted "LaTex workshop " for BE Students of computer department students of UCOE in 2017, 2018 and 2019 • Conducted seminar for CSI students on the topic “Deployment of website on Amazon EC2 cloud” • Conducted Faculty Training Program on “LaTex” Document preparation tool in UCoE in September 2014. • Conducted 4 guest lectures on “System Programming and Compiler Construction” for TE(CSE) Gourishankar Engg. college, Satara
Responsibility at University of Mumbai	:	As per the directives of Board of Studies, Computer Engineering, University of Mumbai, for the revision of syllabus, appointed as member for Semester VII and VIII (R-2019 'C' Scheme) for following Courses 1. CSC 701- Machine Learning 2. CSL 701- Machine Learning Lab

		3. CSC702-. Big Data Analytics 4. CSL702- Big Data Analytics Lab 5. CSC801- Distributed Computing 6. CSL801 - Distributed Computing Lab 7. CSDO802- Social Media Analytics(SMA) 8. CSLO802- Social Media Analytics (SMAL) Lab 9. CSDO 8011-Deep Learning 10. CSL 8021-Deep Learning Lab 11. CSDO8021 Optimization in Machine Learning 12. CSL8031 Optimization in Machine Learning Lab 13. Miniproject 2A and 2B
Professional Development Participation	:	• Attended ISTE Approved Faculty Development Program (FDP) on Trustworthy AI for Cybersecurity: Emerging Trends and Applications from 6th July to 10th July,26 at Dwarkadas J. Sanghvi College of Engineering, Mumbai • Attended Faculty Development Program (FDP) on “Enterprise Blockchain using Hyperledger Fabric” in collaboration with Intuitive Data Solutions Pvt.Ltd at the Department of Computer Engineering, Fr. Conceicao Rodrigues College of Engineering, Bandra. • Attended Faculty Development Program (FDP) on “Agentic AI in FinTech: Autonomous Intelligence for Next-Generation Financial Systems” at Dwarkadas J. Sanghvi College of Engineering, Mumbai. • Introduction to Algorithms and Analysis, 12 Week Course, IIT Kharagpur awarded NPTEL certificate with Elite Silver grade • Introduction to Internet of Things, 12 Week Course, IIT Kharagpur awarded NPTEL certificate with Top 5% • Completed AICTE approved NPTEL course on “Social Network Analysis” by Prof. Tanmoy Chakraborty IIIT Delhi • Completed AICTE National Initiative for technical teachers training (NITTT) Module no 7: Creative Problem Solving and Meaningful R & D • Participated in Smart India Hackathon as mentor for Ministry of AYUSH in Hubali Karnataka on 1,2 April 2017 and Goa Shipyard in Nagpur 2019. • Attended e-Yantra Symposium in IIT Bombay, on 7, 8 april,2017 • Completed “E-yantra Robotics Task Based Trainning” in IIT Bombay, on 19,20 February,2016.
Industrial Training	:	• Completed 2 week Online Industrial Training Program conducted by QOBO.DEV an AI-powered website development platform from 22.06.2026 to 04.07.2026 • Completed Faculty Development program organized by J. P. Morgan under JPMC External Engagement program in AY 2025-2026
Seminars organized for department		• Seminar on “Machine that Learn: The Role of AI/ML in today’s Industry” by Mr. Krishnat Molawade, Vice President, Citicorp Services India under Industry Institute Interaction on 16th August 2025. • Expert session by Dr. Kranti Ghag on “ Copyright filing “

		conducted on 16th November 2025 for faculties of CSE(ICB) dept. • Session on “How to prepare for Internship opportunities” conducted under Internship Mentor Program by Final Year Student of CSE(ICB) conducted on 4th November 2025. • Expert session on Blockchain and Its use cases by Dr. Vivian Lobo, Assistant Professor DJSCE. On 18th November 2025 • Conducted Mock Interviews for Third Year students under Placement Mentorship Program • Session on “Career Readiness for Placement” was conducted under the Placement Mentorship Program by the department on 9th February 2026 • Flipped classroom expert session on “Defendr: Smart Contract Vulnerability Scanner” was conducted by the department on 7th April 2026. • Academic Expert session on Computational Complexity by Prof. Deepali Patil on 6th May 2026
Subjects Taught	:	UG level 1. Design and Analysis of Algorithms 2. Blockchain for Enterprise 3. Introduction to Blockchain Technology 4. Blockchain for Cybersecurity 5. Social Network Analysis 6. Advanced Data Structure and Algorithms 7. Operating Systems 8. Data Analytics and Visualization 9. Discrete Structures 10. Web Application and Development Lab 11. SPC 12. Java 13. Smart Computing 14. Cognitive Computing 15. Big Data Analytics 16. Natural Language Processing 17. Distributed Computing 18. Machine Learning 19. Artificial Intelligence and Soft computing 20. Human Machine Interaction 21. Analysis of Algorithm 22. Database Management System 23. Advanced Database Management 24. Object Oriented Programming (Java) 25. Data Structures 26. Microprocessor 27. Artificial intelligence 28. Programming in ‘C’ 29. Object Oriented programming (C++) 30. Data Communication & Networking 31. Computer Graphics 32. Computer Network
Projects Guided	:	UG level:50

Institute/Department Responsibility	:	1. NBA Program coordinator 2. Department BoS coordinator 3. Preparation of Annexure A and B 4. Preparation of course structure 5. Verification and submission of course audit report 6. Department PAC committee Member 7. Admission committee SAP form filling 8. Department academic calendar Preparation 9. Institute IIC Member 10. Department NPTEL Coordinator 11. Department NAAC Criteria 7 coordinator 12. Code star faculty coordinator 13. Departmental Course file audit 14. Department Coursera faculty coordinator 15. Academic Audit (FE) 16. IQAC Member 17. Trinity Technical Co-convenor 18. NBA Review Committee Member Criteria 5 (Institute) 19. Placement Mentorship Program Coordinator 20. Internship Mentorship Program Coordinator
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