

## Somaiya Vidyavihar University

Name: Dr. Prasanna Jaichandrao Shete			E-mail: prasannashete@somaiya.edu		
Contact No: 9960452937/ 02266449122					
Department/Section: Computer Engineering					
Institute / School : K J Somaiya School of Engineering					
DOJ Somaiya: 03/06/2003		Career Experience: __24 Yrs		Industry Teaching Experience: 0.5 Yrs Experience: 23.5 Yrs	
Present Academic Designation: Associate Professor				Present Administrative Designation: Director, Equal Opportunity Cell, SVU	

Area of research/specialization and Courses Delivered					
Research domain/interests/areas					
1. AI-ML, Accessible computing and Assistive Technologies					
2. Wireless Networks, Mobile Computing					
Courses Delivered					
1. Operating Systems					
2. Computer Networks					
3. Big Data Analytics					
4. Cyber Forensics and Laws					
5. Parallel Processing					
6. Digital Accessibility					
7. Social Mobile Analytics and Cloud					

Recognition as a teacher by any University	UG: Yes	PG: Yes	Ph.D : Yes
Details of Recognitions			
1. Recognition as PhD teacher/ guide by Somaiya Vidyavihar University			
2. Recognition as PG teacher by Somaiya Vidyavihar University and Mumbai University			
3. Recognition as UG teacher by Somaiya Vidyavihar University and Mumbai University			

Education					
Examination	Name of the Degree	University/Board	Institute/College	Year	CPI/SPI/ %Marks
Ph.D	Ph. D (Sci &Tech)	University of Mumbai	V. J. T. I, Mumbai	2018	--
PG	M. Tech (EXTC)	University of Mumbai	V. J. T. I, Mumbai	2007	7.1
UG	B. E (Electronics)	Dr. B.A. Marathwada University, Aurangabad	Shri Tuljabhavani College of Engineering, Tuljapur	2001	66.27%
Diploma	-	-	-	-	-
NET/SET/Other	-	-	-	-	-

Notable Experience Details					
Sr. No	Name of the organization	Designation	Date of Joining	Date of Leaving	Experience (Years)
1.	S.S.P.M's College of Engineering, Kankavali	Lecturer	February 09, 2002	May 31, 2003	1Yr 4 months
2.	K.J. Somaiya College of Engineering	Lecturer	June 03, 2003	July 31, 2009	6 Yrs 1 month
3.	K.J. Somaiya College of Engineering	Assistant Professor	August 01, 2009	July 31, 2012	3 Yrs

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4.	K.J. Somaiya College of Engineering	Associate Professor	August 01, 2012	Till date	13 Yrs 4 months
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Research Accomplishments and Projects		
No of students pursuing Ph.D as on date: 4		No of students completed Ph.D as on date: 0
No of students completed PG thesis / Project work as on date: 12		No of students / groups completed UG projects as on date: 25+
Publications Total: 30	Number of Peer review Journal papers: 17	Number of Conference papers: 13
Details of Publications:		
International Journals		
<ol style="list-style-type: none"><li>1. P. J. Shete and R. N. Awale, "Connectivity Investigation of Channel Quality-Based Adaptive Gossip Flooding Mechanism for AODV," <i>International Journal of Engineering and Technology Innovation</i>, vol.10, no. 1, pp. 25-40, Jan. 2020. (<b>Q3 Journal, Publisher: Taiwan Association of Engineering and Technology Innovation</b>)</li><li>2. P. J. Shete, R. N. Awale, and S. Y. Ket, "Channel Quality Aware Cross-Layer Design based Rate Adaptive MAC for Improving the Throughput Capacity of Multi-hop Ad hoc Networks," <i>Ad Hoc Networks</i>, vol.63, pp. 45-61, Aug. 2017. (<b>Q1 Journal, Publisher: Elsevier</b>)</li><li>3. P. Shete and R. N. Awale, "Reciprocity based Energy Efficient Cooperative Routing Protocol for WSNs," <i>International Journal of Computer Network and Information Security (IJCNIS)</i>, vol. 9, no. 7, pp.59-66, July 2017. (<b>Q3 Journal, Publisher: MECS Press</b>)</li></ol>		
National Journals		
<ol style="list-style-type: none"><li>1. P. Shah and P. Shete, "Speech to Braille: Android App for assisting Visual and Hearing impaired," <i>TISS Journal of Disability Studies and Research</i>, vol. II, Issue I, pp. 82-91, Jun. 2022 (Print Journal, ISSN: 2583-603X)</li></ol>		
Conferences		
<ol style="list-style-type: none"><li>1. S. Baig and P. Shete, "Lumina: A Fine-Tuned LLaMA 3.1 Model for Empathetic Psychological Support," <i>2025 12th International Conference on Future Internet of Things and Cloud (FiCloud)</i>, Istanbul, Turkiye, Aug 11-13, 2025, pp. 431-437.</li><li>2. Rugved Palodkar, Ahaan Kotian, Smit Malde and Prasanna Shete, "Generative deep learning for drug discovery," <i>International Conference on Technologies for Energy, Agriculture, and Healthcare (ICTEAH 2025)</i>, June 5-6, 2025, Mumbai, India.</li><li>3. Jaya Jeswani and Prasanna Shete, "AI-driven PM2.5 prediction in India: a machine learning approach using XGBoost and ensemble models," <i>International Conference on Technologies for Energy, Agriculture, and Healthcare (ICTEAH 2025)</i>, June 5-6, 2025, Mumbai, India.</li><li>4. U. Mody, P. Shete, R. Parikh and J. Rajani, "Generative AI Platform for Applying Artistic Styles to Images," <i>2024 International Conference on Computing and Data Science (ICCDs)</i>, April 26-27, 2024, Chennai, India, 2024, pp. 1-5.</li><li>5. Nisha Vanjari and Prasanna Shete, "Analysis of the CNN models Performance to Detect Handwriting Difficulties," <i>International Conference on Technologies for Energy, Agriculture, and Healthcare (ICTEAH 2024)</i>, April 15-16, 2024, Mumbai, India.</li><li>6. Nisha Vanjari and Prasanna Shete, "Deep Learning based Dysgraphia Symptom Prediction," <i>International Conference on Advances in Communication, Network, and Computing – CNC 2023</i>, Jun 28-29, 2023, Bengaluru, India.</li><li>7. N. Vanjari and P. Shete, "CNN-based Cognitive Impairment Prediction using Handwriting Recognition and Analysis," <i>2023 International Conference on Innovation and Intelligence for Informatics, Computing, and Technologies (3ICT)</i>, Nov 20-21,2023, Sakheer, Bahrain, pp. 408-412.</li><li>8. S. V. Nair and P. Shete, "Mobile Application for Cataract Detection Using Convolution Neural Network," <i>2023 International Conference on Network, Multimedia and Information Technology (NMITCON)</i>, Sep 1-2, 2023, Bengaluru, India, 2023, pp. 1-6.</li></ol>		

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9. P. Shete, P. Shah, P. Parekh and J. Shah, "Text-it-Loud!: Real-time Captioning and Transcribing App for Inclusive Teaching-Learning of Hearing Impaired," *Proceedings of 10th International Conference on Technology for Education (T4E)*, Dec. 09-11, 2019, Goa, pp. 264-265.
10. M. Rajgor, P. Shete and R. N. Awale, "Probabilistic energy efficient routing protocol for wireless sensor network," *Proceedings of International Conference on Communication information and Computing Technology (ICCICT)*, Feb. 2-3, 2018, Mumbai, pp. 1-6.
11. N. Patil, D. Bhole and P. Shete, "Enhanced UI Automator Viewer with improved Android accessibility evaluation features," *Proceedings of International Conference on Automatic Control and Dynamic Optimization Techniques (ICACDOT)*, Sep. 9-10, 2016, Pune, pp. 977-983.
12. P. Shete and R. N. Awale, "Channel Quality Based Adaptive Gossip Flooding Mechanism for AODV," *Proceedings of 13th International Symposium on Modelling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt) 2015*, May 25-29, 2015, Mumbai, pp.553-559.
13. P. Shete and R. N. Awale, "RSS-GossipAODV: Received Signal Strength based Gossip Flooding Mechanism for AODV," *Proceedings of the 6th IBM Collaborative Academia Research Exchange Conference (I-CARE) 2014*, Oct. 9-11, 2014, Bangalore, pp. 1-5.

### Books/Book Chapters

1. Gandhi M., Shah P., Solanki D., Shete P. "Sign Language Recognition Using Convolutional Neural Network," *Proceedings of 5th International Conference on Advances in Computing and Data Sciences. ICACDS 2021*, Apr. 23-24, 2021, pp. 281-291. Part of the book series Communications in Computer and Information Science (CCIT, vol 1441), Springer.
2. Shah P.D., Shete P.J., Parekh P.U., Shah J.N., "Chat-It-Loud!: Real-Time Transcribing App for Communication for Hearing-Impaired," *Proceedings of 5th International Conference on Information and Communication Technology for Intelligent Systems Intelligent Applications (ICTIS 2021)*, Part of the Springer Smart Innovation, Systems and Technologies book series, vol 248. Springer.

### Patents/Copy Rights

1. --

No of Research / consultancy / projects completed:- Rs:	No of Research / consultancy / projects on-going: - Rs: 20,00,000.00	No of Research / consultancy / projects on applied as on date: Rs: -
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### Details of Research / consultancy / projects:

#### Completed

1. --

#### On-going

1. SVU funded "Security Operations Centre & Cyber-Crime Investigation Laboratory" (Co-investigator).

#### Applied

1. --

### IPR/ Copyrights

1. -

### FDPs/Seminars/Workshops/Training Programs Attended/ Organized/ Delivered

#### Attended

1. One-Week National Level Faculty Development Program (FDP) on "Generative AI and Large Language Models: Concepts, Tools & Applications", organized by the Department of Artificial Intelligence and Data Science, Keystone School of Engineering, in association with the IEEE Pune Section, 15th December - 19th December, 2025.

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2. STTP on ‘Generative AI in Action: New Frontiers in Engineering Applications’, organized by Dept of Electronics Engineering KJSSE in association with FSDC SVU, held from 23 - 27 June 2025.
3. One week Faculty Development Program on “High Performance Computing and AI” organized by YBIT Sawantwadi in association with WCE Sangli, supported by CDAC Pune under National Supercomputing Mission, 26th to 31st May 2025.
4. AICTE ATAL Academy Faculty Development Program on Geo-AI: Innovations in AI for Improved Spatial Data Processing at RAMRAO ADIK INSTITUTE OF TECHNOLOGY from 02/12/2024 to 07/12/2024.

### Organized

1. Coordinator, International Conference on Technologies for Energy, Agriculture, and Healthcare (ICTEAH 2024) organized by K J Somaiya College of Engineering, Mumbai, 15-16 April 2024.
2. Organizing committee member, National Conference on ‘Emerging Trends in Computers, Communication & Information Technology,’ K J Somaiya College of Engineering, Mumbai March 20-21, 2009.
3. INCLUSION HUDDLE 2.0: Road Map for Disability Inclusion in Higher Education and Employment
4. ISTE Approved 2 days hands-on Workshop on “Wireless Sensor Networks and IoT”, Feb. 8-9, 2018.
5. Workshop on “Inclusive Education Pedagogy for Science and Engineering Schooling to the Persons with Disabilities,” August 23, 2017.

### Delivered

1. Session on “AI in Healthcare: Medical Disease Diagnosis” as resource person at AICTE- ATAL FDP on “Bridging Research and AI: Methodological Advances in Machine Learning and Deep Learning,” organized by SITCoE, Ichalkaranji, Nov 15, 2025.
2. “Inclusive Education Initiatives and Assistive Technologies for Accessible Engineering Education,” in Two Days National Webinar on “NGOs’ Initiatives and Intervention in Disability Sector” organized by Shivaji University, Kolhapur under “UGC-Scheme for Persons with Disabilities” on 24th to 25th February, 2022.
3. Session on “Academic Accessibility Initiatives in Higher Education” as Guest Speaker at “National Conference on Disability, Accessibility, Inclusion and Wellbeing” organized by TISS Mumbai, Dec 17, 2019.
4. “Introduction to Assistive Technologies for PwDs” at One day National-level Symposium on Accessibility of Persons with Disabilities in Higher Education and Inclusive Practices,” organized by Shivaji University, Kolhapur under “UGC-Scheme for Persons with Disabilities” Nov 28, 2019.

### Notable Key Scholastic Achievements

1.	Best Paper Award at IEEE International Conference on Computing and Data Science (ICCDs 2024).
2.	Certification Fundamentals of Accelerated Computing with CUDA Python from NVIDIA, June 2025
3.	Databricks Academy Accreditation – Databricks Accredited Generative AI Fundamentals, June 2025
4.	Reviewer, The INTERNATIONAL JOURNAL of COMPUTING AND DIGITAL SYSTEMS, UNIVERSITY OF BAHRAIN.
5.	Session Chair at International Conference on Climate Change 2025 (ICCC2025) organized by SNDT University Mumbai, Jan 16-18, 2025.
6.	Session Chair at 2nd International Conference on Advances in Technology and Management (ICATM-2024), April 5-6, 2024, organized by A. C. Patil College of Engineering Kharghar, Navi Mumbai.
7.	Technical Session Convener in International Conference on Technologies for Energy, Agriculture, and

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	Healthcare ICTEAH 2024, 15-16 April 2024, Mumbai.
8.	Felicitation at “National Conference on Disability, Accessibility, Inclusion and Wellbeing” Dec 2018, for Initiatives taken to provide inclusive education environment for the PwD category students of KJSCE.

Notable Positions and Responsibility	
1.	Director, Equal Opportunity Cell, Somaiya Vidyavihar University
2.	Member BoS Computer Engineering
3.	Department PhD Coordinator
4.	Head, Department of Computer Engineering (July 2022- Nov 2024)
5.	Associate Head, Department of Computer Engineering (March 2018-June 2021)
6.	Incharge, KJSCE Data Centre (Sep 2014- June 2017)

**Date: 1 / 1 / 2026**

**Signature of Faculty Member**