

PCE Faculty publications A.Y 2025-26

Conference publication

1. **Seema Mishra** presented *AI-Powered Legal AiD Chatbot for Women Safety* at the *Global Tech Convergence: International Conference on Computing and IT Advancements 2026 (DMCE-GTC-2026)* (International, April 2026). Affiliated with PCE, New Panvel.
2. **Seema Mishra** presented *Smart Lab Management System* at the *Global Tech Convergence: International Conference on Computing and IT Advancements 2026 (DMCE-GTC-2026)* (International, April 2026). Affiliated with PCE, New Panvel.
3. **Dr. Monika Bhagwat** presented *Roop: An AI-Powered Virtual Try-On Platform* at the *Conference on Technologies for Future Cities (CTFC 2025)* (International, March 2026). Affiliated with PCE, New Panvel.
4. **Dr. Monika Bhagwat** presented *Investigating the Neurological Effects of Loving Kindness Meditation Using EEG-Based Feature Extraction and Machine Learning* at the *International Conference on Advancing Technology in Engineering and Science (ICATES 2025)* (International, February 2026). Affiliated with PCE, New Panvel.
5. **Dr. Monika Bhagwat** presented *Multimodal Identification of Neurodegenerative Disorders Using Atlas-Based Brain Image Patterns* at the *6th International Conference on Computer Vision and Robotics (CVR 2026)* (International, May 2026). Affiliated with PCE, New Panvel.
6. **Dr. Ravi Biradar** presented *Home Automation Using Custom 32-bit RISC-V Based FPGA Processor* at the *Conference on Technologies for Future Cities (CTFC 2025)* (International, March 2026). Affiliated with PCE, New Panvel.
7. **Dr. Ravi Biradar** presented *SIGN BRIDGE: Sign Language Translator* at the *Conference on Technologies for Future Cities (CTFC 2025)* (International, March 2026). Affiliated with PCE, New Panvel.
8. **Dr. Karpagavalli S** presented *SolGen: An Automatic Cleaning Robot for Solar Plants* at the *International Conference on Cognitive Informatics Engineering and Technology 2026*, organized by Vidya Vikas College of Engineering and Technology, Tiruchengode, Tamil Nadu (International, March 2026). Affiliated with PCE, New Panvel.
9. **Dr. Karpagavalli S** presented *AI Driven Robotic Arm for Hospital Waste Handling* at the *International Conference on Intelligent and Sustainable Electronics &*

Computing Technologies (IEEE-INSECT 2026) (International, May 2026). Affiliated with PCE, New Panvel.

10. **Dr. Karpagavalli S** presented *Detection and Classification of Microwaste in Temple Environment* in the *Proceedings of the Conference on Technologies for Future Cities (CTFC 2025)*, Atlantis Highlights in Sustainable Development, Atlantis Press, Springer Nature (International, March 2026). Affiliated with PCE, New Panvel.
11. **Ajit Saraf** presented *Portable Antenna for Radio Astronomy* at the *Conference on Technologies for Future Cities (CTFC 2025)* (International, March 2026). Affiliated with PCE, New Panvel.
12. **Ajit Saraf** presented *AI-Powered Conversational Database System* at the *Conference on Technologies for Future Cities (CTFC 2025)* (International, March 2026). Affiliated with PCE, New Panvel.
13. **Swati Patil** presented *IoT-13: IoT Based Autonomous Air Quality Analyzer and Purifier* at the *7th National Level Student Conference – IEEE Technicoknockdown-2026* (National, April 2026). Affiliated with PCE, New Panvel.
14. **Dr. Amey Marathe** presented *Development of a Unity-Based AR Application of Automotive Chassis Load Distribution* at the *6th International Conference on Recent Advances in Mechanical Engineering and Nanomaterials (ICRAMEN 2026)* (International, April 2026). The paper was under publication in EPJ Web of Conferences. Affiliated with PCE, New Panvel.
15. **Dr. Amey Marathe** presented *India Specific Scenario Generation for Autonomous Vehicles to Enhance Vehicle Safety* at the *6th International Conference on Recent Advances in Mechanical Engineering and Nanomaterials (ICRAMEN 2026)* (International, April 2026). The paper was under publication in the AIP Conference Series. Affiliated with PCE, New Panvel.
16. **Dr. Amey Marathe** presented *Integrating Automotive Design as an Engineering Elective: Curriculum Innovation and Skill Development in Undergraduate Automobile Engineering* at *ISTE Global TechCon 2026 and Education* (International, January 2026). The paper was in production with Scientific.Net. Affiliated with PCE, New Panvel.
17. **Ameya Nijasure** presented *Integrating Automotive Design as an Engineering Elective: Curriculum Innovation and Skill Development in Undergraduate Automobile Engineering* at *ISTE Global TechCon 2026 and Education* (International, January 2026). The paper was in production with Scientific.Net. Affiliated with PCE, New Panvel.

18. **Dr. Amey Marathe** presented *A Comparative Analysis of Suspension Systems in Electric Vehicles* at the *International Conference on Recent Trends in Material Science and Mechanical Engineering (ICRMSME 2025)* (International, April 2025). The paper was in production in the AIP Conference Series. Affiliated with PCE, New Panvel.
19. **Dr. Sharvari Govilkar** contributed *Cognitive Computing: Convergence of Natural Language Processing, Systematic Deep Learning and Artificial Intelligence (AI) to Lecture Notes in Networks and Systems (LNNS)* (International). Affiliated with PCE, New Panvel.
20. **Dr. Sharvari Govilkar** contributed *Hate Speech and Cyberbullying Detection on Social Media: A Systematic Review of Methods, Datasets, and Challenges* to the *Proceedings of the Conference on Technologies for Future Cities (CTFC 2025)* (International, May 2025). Affiliated with PCE, New Panvel.
21. **Dr. Sharvari Govilkar** contributed *A Survey on Ethical Artificial Intelligence for Journalism: An Innovative Step Towards Digital Cities Infrastructure to Atlantis Highlights in Sustainable Development, Volume 7* (International). Affiliated with PCE, New Panvel.
22. **Dr. Sharvari Govilkar** contributed *Emotion Driven Prosody Modeling for Indian Language Speech Translation* to *Advances in Engineering and Medical Sciences: Digital Transformation and Innovation* (International, March 2026). Affiliated with PCE, New Panvel.
23. **Dr. Sharvari Govilkar** presented *AI-Driven Real-Time Speech Summarization and EHR Processing for Enhanced Healthcare System* at the *International Conference on Public Health and Policy with Artificial Intelligence (ICPHPAI-26)*, Trivandrum, India (International, February 2026). Affiliated with PCE, New Panvel.
24. **Dr. Jyoti Deshmukh** contributed *Emotion Driven Prosody Modeling for Indian Language Speech Translation* to *Advances in Engineering and Medical Sciences: Digital Transformation and Innovation* (International, March 2026). Affiliated with PCE, New Panvel.
25. **Dr. Mimi Mariam Cherian** contributed *A Review on GIS and Machine Learning Frameworks for Building Footprint Detection* to the *Proceedings of International Conference on Emerging Trends in Industry 4.0 Technologies (ICETI4T)* (International, April 2025). Affiliated with PCE, New Panvel.
26. **Dr. Mimi Mariam Cherian** contributed *Land Use Land Cover Analysis* to *Advances in Technology, Education and Science* (International, May 2025). Affiliated with PCE, New Panvel.

27. **Dr. Mimi Mariam Cherian** contributed *A Review on Social Media Threats and Its Emerging Solutions* to the *Proceedings of International Conference on Nascent Technologies in Engineering (ICNTE)* (International, January 2026). Affiliated with PCE, New Panvel.
28. **Dr. Mimi Mariam Cherian** contributed *A Comprehensive Survey on Plant Disease Detection Across Multiple Crops: Models and Applications* to the *Proceedings of International Conference on Nascent Technologies in Engineering (ICNTE)* (International, January 2026). Affiliated with PCE, New Panvel.
29. **Dr. Ankita Pandit** presented *SPan-Sharpening in WorldView-4 and QuickBird-2 Imagery Using Wavelet-Based Techniques* at the *16th International IEEE Conference on Computing, Communication and Networking Technologies (ICCCNT 2025)* (International, July 2025). Affiliated with PCE, New Panvel.
30. **Dr. Ankita Pandit** contributed *Exploratory Analysis of the Dynamic Key-Based Cryptology System* (International, 2025). Affiliated with PCE, New Panvel.
31. **Prof. Payel Gaurav Thakur** contributed *NexusSentinel: An AI Based Endpoint Detection and Response System* to *Lecture Notes in Networks and Systems (LNNS) or Communications in Computer and Information Science (CCIS)* (International, 2025). Affiliated with PCE, New Panvel.
32. **Prof. Payel Gaurav Thakur** contributed *Machine Learning Based Cyber Threat Detection in IoMT* to *Lecture Notes in Networks and Systems (LNNS)* (International, 2025). Affiliated with PCE, New Panvel.
33. **Prof. Payel Gaurav Thakur** contributed *Detecting Credit Card Fraud Using Machine Learning Algorithms* (International, 2025). Affiliated with PCE, New Panvel.
34. **Prof. Payel Gaurav Thakur** presented *Network Intrusion Detection System Using Hybrid Boosting and Machine Learning Techniques* at the *International Conference on Future Technologies (ICFT 2025)* (International, December 2025). Affiliated with PCE, New Panvel.
35. **Prof. Payel Gaurav Thakur** contributed *Satellite Image Analytics for Tree Enumeration for Diversion of Forest Land* to *IET Conference Proceedings* (International, 2025). Affiliated with PCE, New Panvel.
36. **K. S. Suresh Babu** contributed *X-AI Enabled Hybrid Approach for Detection of Cyber Terrorism* to *Taylor & Francis Book Proceedings* (International, 2026). Affiliated with PCE, New Panvel.
37. **K. S. Suresh Babu** presented *Real-Time Multimodal Emotion Detection in Social Media Data* at the *International Conference on Recent Trends in Engineering Technology and Management*, organized by Suguna College of Engineering,

Coimbatore, India and Samarkand State University, Uzbekistan (International, March 2026). Affiliated with PCE, New Panvel.

38. **K. S. Charumathi** contributed *An Innovative Method for Identifying Personally Identifiable Information through NLP and Unsupervised Techniques on Social Media Networks* to *Lecture Notes in Networks and Systems (LNNS)* (International, 2025). Affiliated with PCE, New Panvel.
39. **Sangeetha Selvan** contributed *Akshara: Contextual Transliteration of Brahmi Script Using Deep Learning* (International, 2026). Affiliated with PCE, New Panvel.
40. **Bhagyashri Patil** contributed *SmartBinGo: Real-Time Waste Monitoring and Optimization for Smart Cities* (International, 2025). Affiliated with PCE, New Panvel.
41. **Bhagyashri Patil** contributed *A Survey on AI-Driven Techniques for Automated Medical Diagnosis and Consultation System* (International, 2025). Affiliated with PCE, New Panvel.
42. **Shubhangi Chavan** contributed *A Multimodal System for Burnout Detection Using Artificial Intelligence and Machine Learning* to *Lecture Notes in Networks and Systems (LNNS)* (International, 2025). Affiliated with PCE, New Panvel.
43. **Shubhangi Chavan** contributed *AI Legal Assistance Using CAG and XAI* to *Lecture Notes in Computer Science (LNCS) or Communications in Computer and Information Science (CCIS)* (International, 2025). Affiliated with PCE, New Panvel.
44. **Priyanka P. Sherkhane** presented *AutoGuard: AI Powered Retail Theft and Suspicious Activity Detection System* at the *Proceedings of the 3rd International Conference on Advances in Engineering and Medical Sciences 2026* (International, March 2026). Affiliated with PCE, New Panvel.
45. **Pooja Bhise** contributed *A Survey on Ethical Artificial Intelligence for Journalism: An Innovative Step Towards Digital Cities Infrastructure* to *Atlantis Highlights in Sustainable Development, Volume 7* (International, 2025). Affiliated with PCE, New Panvel.
46. **Radhika Fulzele** presented *A Framework for NLP-Based Sentiment Analysis of Hindi Memes to Support Inclusive and Sustainable Digital Education Systems* at the *Proceedings of the 2nd International Conference on Engineering Trends in Education Systems and Sustainability (ICETESS-2026)* (International, April 2026). Affiliated with PCE, New Panvel.
47. **Manasi Sagar Kulkarni** presented *AI-Driven Food Label Analysis and Risk Assessment for Food Safety* at the *Proceedings of the 15th International Conference*

on Intelligent Computing and Networking (IC-ICN 2026) (International, 2026). Affiliated with PCE, New Panvel.

48. **Ashwini D. Mate** presented *SmartCare: Enhancing Doctor–Patient Connectivity at the Proceedings of the International Conference on Advancing Technology in Engineering and Science (ICATES 2025)* (International, 2025). Affiliated with PCE, New Panvel.
49. **Kirti Rana** presented *Evaluating Machine Learning Models for Intrusion Detection in Cloud Environments: A Security-Driven Perspective* at the *2025 International Conference on Cognitive, Green and Ubiquitous Computing (IC-CGU)* (International, February 2026). Affiliated with PCE, New Panvel.
50. **Rasmi Gourkar** presented *AI-Based Genomic Risk Stratification & Drug Response Prediction* at the *2025 International Conference on Cognitive, Green and Ubiquitous Computing (IC-CGU)*, Bhubaneswar, India (International, May 2025). Affiliated with PCE, New Panvel.
51. **Dr. Prashant Nitnaware** presented *Development of Multistage Machine Learning Classifier Using Decision Trees and Boosting Algorithms* at the *2024 Asian Conference on Intelligent Technologies (ACOIT)* (International, April 2025). Affiliated with PCE, New Panvel.
52. **Dr. Prashant Nitnaware** presented *Introduction to Edge Data Management: Hands-on Learning with Python for Data Stream Processing* (International, May 2026). Affiliated with PCE, New Panvel.
53. **Dr. Aditi Bhateja** presented *SMARTFARM X: AI-Powered System Designed to Assist Farmers* at the *Conference on Technologies for Future Cities (CTFC)* (International, December 2025). Affiliated with PCE, New Panvel.
54. **Prof. Vrushali Bahurupi** presented *A Comprehensive Survey on AI-Enabled Physiotherapy Advances in Human Pose Estimation, Exercise Assessment and Personalised Tele-Rehabilitation* at the *International Conference on Nascent Technologies in Engineering* (International, January 2026). Affiliated with PCE, New Panvel.
55. **Prof. Diksha Kale** presented *Interpretable Bird Classification Using Audio Spectrogram Transformer* at the *2026 International Conference on Communication, Computing and Emerging Technologies (IC3ET)* (International, February 2026). Affiliated with PCE, New Panvel.
56. **Prof. Arpita Agarwal** presented *Indian Sign Language Recognition Using Neural Networks* at the *5th International Conference on Artificial Intelligence and Signal Processing (AISP)* (International, March 2026). Affiliated with PCE, New Panvel.

57. **Prof. Prerana Kulkarni** presented *BrandMatch: An AI-Driven Influencer Marketing Platform* at the 2026 6th Biennial International Conference on Nascent Technologies in Engineering (ICNTE) (International, March 2026). Affiliated with PCE, New Panvel.
58. **Prof. Sheetal Gawande** presented *Hate Speech and Cyberbullying Detection on Social Media: A Systematic Review of Methods, Datasets, and Challenges* at the Conference on Technologies for Future Cities (CTFC) (International, March 2026). Affiliated with PCE, New Panvel.
59. **Prof. Sheetal Gawande** presented *A Blockchain-Based System for Secure Certificate Authentication and Verification* at the 6th International Conference on Recent Trends in Engineering, Technology and Management (International, April 2026). Affiliated with PCE, New Panvel.
60. **Dr. Divya Padmanabhan** presented *A Sustainable Natural Composite Material for Automotive Applications* at the Conference on Technologies for Future Cities (CTFC) (International, December 2025). Affiliated with PCE, New Panvel.
61. **Dr. Moutusi De** presented *Optical Fiber Sensors: Technology and Applications at Prospect of Optical Fiber Sensors Using Photonic Crystal Fiber* (June 2026). The source does not specify whether this publication/presentation is National or International. Affiliated with PCE, New Panvel.
62. **Maheshkumar D. Kudre, Narendrakumar R. Dasre and Pritam Wani** contributed *A Survey on Mathematics for Edge Detection Algorithms in Image Processing to Advanced Mathematics in Computing, Communication and Security* (December 2025). The source does not specify whether this publication is National or International. Affiliated with PCE, New Panvel.