



PUNE INSTITUTE OF COMPUTER TECHNOLOGY

Department of Computer Engineering

Research Papers Published During the Year 2024-2025

Research Papers Published in Various Journals

| Sr. No. | Name of The Authors | Title Of The Paper | Name Of The Journal | Volume/ Issue | Page Numbers | Year Of Publication | ISSN No. | Publisher/ Indexing |
|---------|--|--|--|---------------|--------------|---------------------|-------------------------------------|---------------------|
| 1. | Dr. Shital N, Girme | A secured and fault-tolerant algorithm for electing an efficient coordinator in distributed networks | e-Prime - Advances in Electrical Engineering, Electronics and Energy | 10 | 1-7 | Sep-2024 | 2772-6711 | Scopus |
| 2. | Pranali Navghare, Dipika Raigar, Nikita Kapadnis, Kimaya Urane | Cryptography in Network Security: a Mini Review | Communications on Applied Nonlinear Analysis | 32/03 | 291-300 | Nov 2024 | 1074-133X | Scopus |
| 3. | Dr. G.V. Kale ,Pranali Navghare, | Comparative Study of Functionality Isolation in Multi-Application Smart Cards | Communications on Applied Nonlinear Analysis | 32/04 | NA | Dec 2024 | 1074-133X | Scopus |
| 4. | Dr.Geetawali V Kale, Pranali R.Navghare | A Comprehensive Study of Text Summarization with Advent of Large Language Models | Communications on Applied Nonlinear Analysis | 32/09 | NA | March 2025 | 1074-133X | Scopus |
| 5. | A.G.Phakarkar | Parkinson's Disease Detection on Unbalanced Speech Data using Convolutional Neural Networks | Communications on Applied Nonlinear Analysis | 32/02 | 202-214 | September 2024 | 1074-133X | Scopus |
| 6. | Priyanka Shahane | Automated Essay Grading using LDA Optimized LSTM-ALM | Computer Research and Development CRD | 24/11 | 162-172 | Nov-2024 | 1000-1239 | Scopus |
| 7. | Priyanka Shahane | Flight Delay Prediction using LSTM & XGBoost | Computer Research and Development CRD | 24/11 | 148-160 | Nov-2024 | 1000-1239 | Scopus |
| 8. | Jayshree S. Mahajan | Enhanced Cipher - RSA (E-RSA) Source Code Obfuscation: Scheme and Implementation | International Journal of Critical Infrastructures | 10 | 01-23 | Nov-2024 | DOI: 10.1504/IJCIS.2026.10068330 | Scopus |



PUNE INSTITUTE OF COMPUTER TECHNOLOGY

Department of Computer Engineering

Research Papers Published During the Year 2024-2025

| | | | | | | | | |
|-----|----------------------------|--|---|--------|-------------|---------------|-----------------------|---------------|
| 9. | Kumari Deepika | Exploring the Artificial Intelligence and Its Impact in Pharmaceutical Sciences: Insights Toward the Horizons Where Technology Meets Tradition | CHEMICAL BIOLOGY & DRUG DESIGN | 104/04 | 01-23 | Oct 2024 | 1747-0277 / 1747-0285 | Scopus |
| 10. | Vaishali R. Kandekar | Real-time network anomaly detection using Explainable AI | Journal Of Technology | 15/03 | 21-25 | Mar-2025 | 1012-3407 | Peer Reviewed |
| 11. | Vaishali R. Kandekar | Just-in-Time Maintenance with Explainable AI for Industrial IoT: A Comprehensive Survey | Journal Of Technology | 15/03 | 42-45 | Mar-2025 | 1012-3407 | Peer Reviewed |
| 12. | Dr. Arati R Deshpande | Arrival Time Prediction for Transportation System | PICT's International Journal of Engineering and Technology (PIJET) | 1/2 | 106-113 | Jun-2024 | 2584-2668 | Peer Reviewed |
| 13. | Dr. Arati R Deshpande | Recommendation Using Deep Sentiment Analysis | Journal of Systems Engineering and Electronics | 34/7 | 185-190 | July-2024 | 1671-1793 | Peer Reviewed |
| 14. | Prof. Nikita Kapadnis | Geo Cache Optimized Multi-Traffic Scene Perception Based on Supervised Learning and Artificial Intelligence | IRJIT | 8/8 | 248-251 | Aug-2024 | 2581-3048 | Peer Reviewed |
| 15. | Prof. Arundhati Chandorkar | RIDE, LEARN, AND CONNECT: CAMPUSCONNECT'S APPROACH TO REDEFINING THE COLLEGE EXPERIENCE | International Research Journal of Modernization in Engineering Technology and Science (IRJMETS) | 6/11 | 1744 - 1749 | November 2024 | 2582-5208 | Peer Reviewed |
| 16 | Prof. Arundhati Chandorkar | COMPREHENSIVE SURVEY ON OPTICAL CHARACTER RECOGNITION (OCR) | International Research Journal of Modernization in Engineering Technology and Science (IRJMETS) | 6/11 | 3857-3860 | November 2024 | 2582-5208 | Peer Reviewed |



PUNE INSTITUTE OF COMPUTER TECHNOLOGY

Department of Computer Engineering

Research Papers Published During the Year 2024-2025

| | | | | | | | | |
|-----|--------------------------|---|---|-------|-----------|---------------|-------------------|---------------|
| 17. | Mr. Samadhan Walu Jadhav | A Survey on Machine Learning Models for Detecting Handwriting Errors in Devanagari Script | Bulletin For Technology And History Journal | 24/11 | 0391-6715 | November 2024 | 199-202 | Peer Reviewed |
| 18. | Mr. Samadhan Walu Jadhav | Real-Time Exercise Analysis and Corrective Feedback System | International Journal of Scientific Research in Engineering and Management (IJSREM) | 8/11 | 2582-3930 | November 2024 | 01-09 | Peer Reviewed |
| 19. | Dr Arati R Deshpande | Enhancing LLMs with Indian Multi-Lingual Audio Understanding for AGI Advancement: A Survey | International Research Journal of Engineering and Technology (IRJET) | 10 | 01-21 | 2024 | p-ISSN: 2395-0072 | Peer Reviewed |
| 20. | Mrs. Hema Kumbhar | A Review on Methods Employed for Smart Water Management in Precision Farming | Mukt Shabd Journal | 13/11 | 1069-1073 | Nov-2024 | 2347-3150 | Peer Reviewed |
| 21 | Rajani R Jadhav | IMPROVING MALWARE DISCOVERY USING ARTIFICIAL NEURAL NETWORK: A DETAILED REVIEW | Journal Of Technology | 12/10 | 1080-1084 | Oct-2024 | 1012-3407 | Peer Reviewed |
| 22 | Abhijeet sagare | Big Data based Travelling Route Recommendation on Social Media | Gis Science Journal | 12/1 | 09-14 | Jan-2025 | 1869-9391 | Peer Reviewed |
| 23 | Abhijeet sagare | Recent Advancements and Discoveries in Cryptogenesis | TIJER Technix International Journal | 12/1 | a466-a472 | Jan-2025 | 2349-9249 | Peer Reviewed |
| 24 | Shweta Shah | A Survey on Sentiment Analysis, Summarization, and Stock Price Prediction Using News Articles | COMPUTER RESEARCH AND DEVELOPMENT (ISSN NO:1000-1239) VOLUME 24 ISSUE 12 2024 | 24/12 | 66-71 | Dec-2024 | 1000-1239 | Peer Reviewed |



PUNE INSTITUTE OF COMPUTER TECHNOLOGY

Department of Computer Engineering

Research Papers Published During the Year 2024-2025

| | | | | | | | | |
|----|----------------------------|---|---|-------|-------------|---------------|-------------|---------------|
| 25 | Nikita Kapadnis | Detecting Data Leaks due to SQL Injection | International Journal of Scientific Research in Engineering and Management (IJSREM) | 8/12 | 01-04 | Dec-2024 | 2582-3930 | Peer Reviewed |
| 26 | Prof. Arundhati Chandorkar | RIDE, LEARN, AND CONNECT: CAMPUSCONNECT'S APPROACH TO REDEFINING THE COLLEGE EXPERIENCE | International Research Journal of Modernization in Engineering Technology and Science (IRJMETS) | 6/11 | 1744 - 1749 | Nov-2024 | 2582-5208 | Peer Reviewed |
| 27 | Shweta Shah | Bridging Language Barriers: The Role of AI in Real-Time Multilingual Translation for Video Conferencing | | 11/05 | 2001-2008 | Nov-2024 | 2001-2008 | Peer Reviewed |
| 28 | Parag Jaygopal Jambhulkar | Comparative Analysis of Machine Learning Techniques for Sentiment Classification | International Journal of Scientific Research in Engineering and Management (IJSREM) | 8/10 | 01-06 | Oct 2024 | 2582-3930 | Peer Reviewed |
| 29 | Parag Jaygopal Jambhulkar | Emotion Analysis from Face and Speech: A Comprehensive Review of Current | International Journal of Scientific Research in Engineering and Management (IJSREM) | 8/12 | 01-04 | Dec 2024 | 2582-3930 | Peer Reviewed |
| 30 | Hema Sagar Kumbhar | Optimizing Crop Selection and Profitability through Machine Learning-Based Recommendations | Journal of Technology | 13/01 | 736 - 741 | Jan-25 | 1012 - 3407 | Peer Reviewed |
| 31 | Mayur S. Chavan | Maintaining Game Fairness Amid Strategic Evolution in Multiplayer Obstacle Course Games | TIJER - INTERNATIONAL RESEARCH JOURNALS | 12/01 | NA | January 2025 | 2349-9249 | Peer Reviewed |
| 32 | Mayur S. Chavan | Predicting Cricket Outcomes: A Comparative Analysis of Machine Learning Models for Optimal Accuracy | International Journal of Advances in Engineering and Management (IJAEM) | 7/02 | 210 - 213 | February 2025 | 2395-5252 | Peer Reviewed |



PUNE INSTITUTE OF COMPUTER TECHNOLOGY

Department of Computer Engineering

Research Papers Published During the Year 2024-2025

| | | | | | | | | |
|----|-------------------------|--|--|-------|---------|------------|-----------|---------------|
| 33 | Dr. Arati R Deshpande | Emotion-Based Music Recommendation System Using Speech Analysis | PICT's International Journal of Engineering and Technology (PIJET) | 2/01 | 151-161 | Dec 2024 | 2584-2668 | Peer Reviewed |
| 34 | Dr. Arati R Deshpande | Traffic Congestion Control using Ensemble Methods | PICT's International Journal of Engineering and Technology (PIJET) | 2/01 | 162-173 | Dec 2024 | 2584-2669 | Peer Reviewed |
| 35 | Mrs. Madhuri S. Patil | Developing AI powered platforms for automated | International Journal of Innovative Research in Technology - an UGC approved journal | 11/09 | 559-562 | Feb-2025 | 2349-6002 | Peer Reviewed |
| 36 | Jayshree S. Mahajan | Using GenAI to Generate Blood Test Report Analysis to Reverse Metabolic Syndrome | PICT's International Journal of Engineering and Technology (PIJET) | 2/2 | 55-69 | Jan-2025 | 2584-2668 | Peer Reviewed |
| 37 | Prof. Virendra V Bagade | Early stages Automated Detection of Alzheimer's Disease by using | VDI-Z Integrierte Produktion Journal | 12/04 | 55-84 | April 2-25 | 0042-1766 | Peer Reviewed |
| 38 | Pooja T Kohok | Smart City Exploration: A Review-Based Recommendation System | PICT's International Journal of Engineering and Technology (PIJET) | 02/02 | 42-54 | Jan-2025 | 2584-2668 | Peer Reviewed |
| 39 | Mayur S. Chavan | Deep Reinforcement Learning for Supply Chain Optimization: A DQN and LSTM-Based Approach | International Journal for Research in Applied Science & Engineering Technology (IJRASET) | 13/04 | 11 | April 2025 | 2321-9653 | Peer Reviewed |



PUNE INSTITUTE OF COMPUTER TECHNOLOGY

Department of Computer Engineering

Research Papers Published During the Year 2024-2025

| Sr. No. | Name of The Teacher's/ Author | Title Of The Paper | Name Of The Conference | Level | Year Of Publication |
|---------|-------------------------------|---|--|---------------|---------------------|
| 1 | Dr. Geetanjali Kale | Automated Answer and Diagram Scoring in the STEM domain: A literature review | 2024 5th International Conference for Emerging Technology (INCET) | International | July 2024 |
| 2 | Dr. Geetanjali Kale | Stance Detection in Arabic using Ensemble of Large Language Models | Arabic NLP 2024 - 2nd Arabic Natural Language Processing Conference, Proceedings of the Conference, 2024, pp. 837–841 | International | 2024 |
| 3 | Prof. Sarang Achyut Joshi | Symantic Similarity Detection and Analysis for Text Documens | 2024 2nd IEEE and ACM International Conference on Emerging Trends in information Technology and Engineering (ic-ETITE 24) | International | July 2024 |
| 4 | Dipika Raigar | ML based Web Application Firewall for Signature and Anomaly Detection Using Feature Extraction | 2024 15th International Conference on Computing Communication and Networking Technologies (ICCCNT) | International | June 2024 |
| 5 | V. S. Gaikwad | A Fully Homomorphic Encryption based approach for Privacy Preserved Pre-Processing of Medical Transcripts | Proceedings of the Hinweis 2nd International Conference on Recent Trends in Machine Learning and Image Processing (MLIP-2023). | International | 2024 |
| 6 | V. S. Gaikwad | Student Attentiveness Assessment based on Emotion Detection Model using Human Facial Expression Recognition | Proceedings of the Hinweis 2nd International Conference on Advanced Research in Engineering and Technology 2024 | International | 2024 |
| 7 | V. S. Gaikwad | Human Exercise Detection and Correction Using MediaPipe Framework | Proceedings of the Hinweis 2nd International Conference on Advanced Research in Engineering and Technology 2024 | International | 2024 |
| | | | | | |



PUNE INSTITUTE OF COMPUTER TECHNOLOGY

Department of Computer Engineering

Research Papers Published During the Year 2024-2025

| | | | | | |
|----|----------------------|--|--|---------------|-----------|
| 8 | U. S. Pawar | Introducing Interactive Elements to Mobile VR:Leveraging Smart Phone Sensors for Immersive Experiences | 8th International Conference on Computing Communication Control & Automation-2024 | International | Aug-2024 |
| 9 | Sheetal Sonawane | The Current Landscape of Multimodal Summarization | 20th International Conference on Natural Language Processing | International | Dec-2024 |
| 10 | Sheetal Sonawane | Query-Based Summarization and Sentiment Analysis for Indian Financial Text by leveraging Dense Passage Retriever, RoBERTa, and FinBERT | 20th International Conference on Natural Language Processing | International | Dec-2024 |
| 11 | Sheetal Sonawane | CASM - Context and Something More in Lexical Simplification | 20th International Conference on Natural Language Processing | International | Dec-2024 |
| 12 | Sheetal Sonawane | Maven at MEDIQA-CORR 2024: Leveraging RAG and Medical LLM for Error Detection and Correction in Medical Notes | Proceedings of the 6th Clinical Natural Language Processing Workshop, pages 374–381 | International | Jun-2024 |
| 13 | Sheetal Sonawane | CLTeam1 at SemEval-2024 Task 10: Large Language Model based ensemble for Emotion Detection in Hinglish | Proceedings of the 18th International Workshop on Semantic Evaluation (SemEval-2024), | International | Jun-2024 |
| 14 | Sheetal Sonawane | The Wisdom of Weighing: Stacking Ensembles for a More Balanced Sexism Detector | CLEF (Working Notes) 2024 : 1203-1213 | International | Sep-2024 |
| 15 | Dr Arati R Deshpande | The Rehab Reco - A Therapy Recommender System for Dementia | 5th International Conference on Electrical and Electronics Engineering (ICEEE 2024) September 11-12, 2024 Swinburne University of Technology, 427-451 Burwood Rd, Hawthorn VIC 3122 | International | Sept-2024 |



PUNE INSTITUTE OF COMPUTER TECHNOLOGY

Department of Computer Engineering

Research Papers Published During the Year 2024-2025

| | | | | | |
|----|--|---|--|---------------|----------|
| 16 | Dr. Shital Girme | EXAMSENTRY: SECURE, VERIFY, EXCEL | 2024 International Conference on Emerging Smart Computing and Informatics (ESCI) | International | 2024 |
| 17 | Nikita Kapadnis, Pranali Navghare, Dipika Raigar, Kimaya Unare | Trading Insight AI: An Intelligent Research Tool Revolutionizing Financial Analysis with AI and NLP | 3rd International Conference on Optimization Techniques in the Field of Engineering (ICOFE-2024) | International | Dec-2024 |
| 18 | Nikita Kapadnis | Exploring New Frontiers in Video Fingerprinting: A Comprehensive Review of Techniques | 16th IEEE International Conference on CICN-2024 at Oriental University, Indore, Madhya Pradesh | International | DEC-2024 |
| 19 | Pranjali P. Joshi | Comparative Analysis of Large Language Models | ICICV 2024 | International | Apr-2024 |
| 20 | Kumari Deepika | Zernike Moment as Discrete Feature | 2nd International Conference on Recent Advancement in Communication, Computing and Artificial Intelligence RACCAI 2024 | International | Nov-2024 |
| 21 | Yogesh Handge | Chat boat-Enhanced Placement data Management and Summarization Application | TIJER 2024 | International | 2024 |
| 22 | Priyanka Shahane | Blockchain based Interplanetary File System for Secure Storage of Intellectual Property and Will documents | 5th International Conference on Current Trends in Materials Science and Engineering (CTMSE 2025) | International | Feb-2025 |
| 23 | Priyanka Shahane | Schizophrenia Detection using Deep Graph Convolutional Neural Network and Advanced Biomarker Identification | 2nd International Conference on Advanced Network Technologies and Computational Intelligence (ICANTCI 2025) | International | May-2025 |



PUNE INSTITUTE OF COMPUTER TECHNOLOGY

Department of Computer Engineering

Research Papers Published During the Year 2024-2025

| | | | | | |
|----|-----------------------|--|---|---------------|----------|
| 24 | Priyanka Shahane | Student's Performance Prediction Using Decision Tree Regressor | 3rd International Conference on Advanced Network Technologies and Intelligent Computing (ANTIC) | International | Dec-2023 |
| 25 | Prof. Sarang Joshi | A Survey of Gesture Prioritization Methods for Physically Challenged Persons | INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN ENGINEERING, TECHNOLOGY AND SCIENCE | International | Feb-2025 |
| 26 | Mrs. Madhuri S. Patil | Impact of XAI on Job Recommendation System: A Systematic Study | 1st IEEE Global conference on 'Cognitive Computing and Communication Technology'. | International | Apr-2025 |
| 27 | Rutuja A. Kulkarni | Hand Gesture-Based Security and Authentication System | 2024 International Conference on Intelligent Systems and Advanced Applications (ICISAA) | International | Oct-2024 |
| 28 | Pranali r Navghare | Satellite Imagery Driven Flood Detection using Deep Learning | 2024 International Conference on Artificial Intelligence and Quantum Computation-Based Sensor Application (ICAIQSA) | International | Dec-2024 |
| 29 | Sheetal Sonawane | Extractive Summarization using Extended TextRank Algorithm | 21st International Conference on Natural Language Processing | International | Dec-2024 |
| 30 | Sheetal Sonawane | A Comparative Study of Artificial Intelligence and eXplainable AI Techniques for Pulmonary Disease Detection and Its Severity Classification | 8th International Artificial Intelligence and Data Processing Symposium (IDAP) | International | Sep-2024 |
| 31 | Anupama Phakatkar | Speech based Parkinson's Disease Detection using Machine Learning Techniques: A Survey | 8th INTERNATIONAL CONFERENCE ON INNOVATIVE COMPUTING AND COMMUNICATION | International | Feb-2025 |
| 32 | Jayshree S. Mahajan | Optimizing User-Content Creator Engagement via Semantic Comment Clustering, Automated Chatbots, and Sentiment Analysis | 1st International Conference on AIML-Applications for Engineering & Technology(ICAET) | International | Jan-2025 |



PUNE INSTITUTE OF COMPUTER TECHNOLOGY

Department of Computer Engineering

Research Papers Published During the Year 2024-2025

| | | | | | |
|----|---|--|---|---------------|----------|
| 33 | Jayshree S. Mahajan, Samadhan W. Jadhav | Federated Learning for Cardiovascular Disease Prediction | 2025 International Conference on Emerging Smart Computing and Informatics(ESCI) | International | Mar-2025 |
| 34 | Urmila S. Pawar, Rutuja A. Kulkarni | Navigation with Augmented Reality | 1st International Conference on AIML-Applications for Engineering & Technology(ICAET) | International | Jan-2025 |
| 35 | Ashwini Bundele | Efficient Transfer Learning Classification Technique for the Diagnosis of Brain Tumors from Magnetic Resonance Image Scans | 1st International Conference on Recent Advances in Engineering and Sciences 22nd & 23rd April 2025 ICRAES 2025 | International | Apr-2025 |
| 36 | Ashwini Bundele | Performance Analysis of Aggregation Algorithms in Privacy Preserving Federated Learning | IEEE INTERNATIONAL CONFERENCE ON BLOCKCHAIN AND DISTRIBUTED SYSTEMS SECURITY 2024 | International | OCT-2024 |
| | | | | | |