



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.Geetanal 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



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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



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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



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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



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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



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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



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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



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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	ComparativeAnalysisofLargeLanguageModels	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 Internatinal Conference on Advanced Network Technologies and Computational Intelligence (ICANTCI 2025)	International	May-2025



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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



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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 Bundeale	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 2025ICRAES 2025	International	Apr-2025
36	Ashwini Bundeale	Performance Analysis of Aggregation Algorithms in Privacy Preserving Federated Learning	IEEE INTERNATIONAL CONFERENCE ON BLOCKCHAIN AND DISTRIBUTED SYSTEMS SECURITY 2024	International	OCT-2024