



**Pimpri Chinchwad Education Trust's**  
**Pimpri Chinchwad College of Engineering & Research Ravet, Pune**  
**An Autonomous Institute | NBA Accredited (4 UG Programs) | NAAC A++**  
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**Summary of Journal Publication**

<b>Department - Information Technology</b>			
	<b>Sr No</b>	<b>Academic Year</b>	<b>Count of Publication in Journal</b>
	1	2025-26	5
	2	2024-25	6
	2	2023-24	5

## List of Publications

Paper Id	A. Y.	Department	Title of Article	Author(s)	Journal	Volume	Issue	DOI
JP202526_IT_1	2025-26	Department of Information Technology	A Novel Stack Ensemble Learning Techniques for Sentiment Classification in Climate Change Discourse	Vipin Jain, Shilpa Agnihotri Pandey, Ankit Chakrawarti, Rahul Sharma & Vinod Patidar	Automatic Control and Computer Sciences	59	3	<a href="https://doi.org/10.3103/S0146411625700555">https://doi.org/10.3103/S0146411625700555</a>
JP202526_IT_2	2025-26	Department of Information Technology	Literature Review on Anomaly Detection and Fault Prediction in Cyber-Physical Systems Using Advanced Machine Learning Techniques	Santoshkumar V Chobe, W Jiang	SGS-Engineering & Sciences	1	3	<a href="https://doi.org/10.1142/S0219649226500052">https://doi.org/10.1142/S0219649226500052</a>
JP202526_IT_3	2025-26	Department of Information Technology	Improved Le-SqueezeNet Model for Fine-Grained Multimodal Sentiment Analysis with Attention Mechanism-Based Aspect Extraction	Dr.Priyanka Patil, Dr.Sunil Gupta	Journal of Information & Knowledge Management	22	4	<a href="https://doi.org/10.1142/S0219649226500048">https://doi.org/10.1142/S0219649226500048</a>
JP202526_IT_4	2025-26	Department of Information Technology	Deep Learning for Real-Time Detection of Pollutants in Bio-Energy Production and Utilization Systems	Hemlata Suresh Gaikwad, Nidhi Sharma, Shital Y. Solanke, Swati Mukesh Dixit, Anant Sidhappa Kurhade	Applied Chemical Engineering	9	1	https://doi: 10.59429/ace.v9i1.5879
JP202526_IT_5	2025-26	Department of Information Technology	AI-Driven Multimodal Fusion of Neuroimaging and Speech Analysis for Early Detection of Alzheimer's Disease Biomarkers	Dr. Sarita Sushil Gaikwad, Mrs. Nilam Ajay Jadhav, Mrs. Shital Gajbhiye, Mrs. Bhavana Badhane, Avani Ray, Hemlata Suresh Gaikwad, Trupti Tukaram Tekale, Tejaswini Hanumant Gavhane	Journal of Neonatal Surgery	14	3	<a href="https://doi.org/10.63682/jns.v14i15S.3905">https://doi.org/10.63682/jns.v14i15S.3905</a>
JP202425_IT_1	2024-25	Department of Information Technology	Enhanced Network Classification of Brain Tumors Using the Transfer Learning Model and Aquila Optimization-Based Metaheuristics	Pallavi Patil & P.Sharma	Panamerican Mathematical Journal	34	2	2-s2.0-85203848077
JP202425_IT_2	2024-25	Department of Information Technology	Deep learning-based blood cell classification from microscopic images for haematological disorder identification	Jagtap N.S.;Bodade V.;Kadrolli V.;Mahajan H.;Kale P.P.;Pise P.;Hingmire A.	Multimedia Tools and Applications	84	3	2-s2.0-85200147292

JP202425_IT_3	2024-25	Department of Information Technology	A Survey on DeepFake Detection Using Machine Learning	Santoshkumar Chobe, Swati Nikam, Aditya Bhosale, Atharva Khairnar, Kushal Patil, Pritam Fulari	International Conference on Artificial Intelligence, Communication Technologies & Smart Cities	1533	3	<a href="https://doi.org/10.1007/978-981-96-9196-8_27">https://doi.org/10.1007/978-981-96-9196-8_27</a>
JP202425_IT_4	2024-25	Department of Information Technology	QMWT:Design of an Improved EEG Classification Model Via Q-Learning Based Processing of Multispectral Wave Traits	Pranjali A. More, Sonali M. Sonavane, Anita S. Mahajan, Yogendra Patil, Shwetal K. Patil, Trupti T. Tekale	Advances in Nonlinear Variational Inequalities	27	4	<a href="https://doi.org/10.52783/anvi.v27.1498">https://doi.org/10.52783/anvi.v27.1498</a>
JP202425_IT_5	2024-25	Department of Information Technology	Data Validation using Decomposition Technique for Data Transfer Network	Maya Shelke ,Madhuri Kethari, Aparna Mete ,Trupti Tekale ,Renuka Patil	2nd international conference on Artificial Intelligence: Theory and Applications(AITA 2024)	5588	4	<a href="https://doi.org/10.1007/978-981-96-9196-8_25">https://doi.org/10.1007/978-981-96-9196-8_25</a>
JP202425_IT_6	2024-25	Department of Information Technology	Survey Paper -Fine-Grained sentiment analysis using Attention Mechanism in Machine Learning and Deep Learning	Priyanka Patil, Dr.Sunil Gupta	INDIAN JOURNAL OF TECHNICAL EDUCATION	48	5	NA
JP202324_IT_1	2023-24	Department of Information Technology	Optimizing Data Extraction using Preprocessing for Enhanced Efficiency	Chobe S.V.;Nikam S.	Advances in Nonlinear Variational Inequalities	27	5	2-s2.0-85202942399
JP202324_IT_2	2023-24	Department of Information Technology	Evaluation of the extent and demanding roles of ethical hacking in cybersecurity	Kumar J.R.R.;Bhalke D.G.;Nikam S.;Chobe S.;Khidse S.;Kale K.	Journal of Autonomous Intelligence	7	4	2-s2.0-85174141574
JP202324_IT_3	2023-24	Department of Information	The Impact of Quantum Computing on Cryptographic Security Protocols	Dixit S.;Shirode U.R.;Chobe S.V.;Nikam S.;Bhise Y.D.	Advances in Nonlinear	27	4	2-s2.0-85202742472
JP202324_IT_4	2023-24	Department of Information Technology	Harnessing AI for Strategic Decision-Making and Business Performance Optimization	Gupta K.;Mane P.;Rajankar O.S.;Bhowmik M.;Jadhav R.;Yadav S.;Rawandale S.;Chobe S.V.	International Journal of Intelligent Systems and Applications in Engineering	11	3	2-s2.0-85172014962
JP202324_IT_5	2023-24	Department of Information Technology	Introduction of machine learning with applications to communication system	Kumar J.R.;Chobe S.;Nikam S.;Zanwar S.;Borawake M.;Hirolikar D.	Journal of Autonomous Intelligence	6	3	10.32629/jai.v6i3.1244

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<b>Summary of Conferences</b>		

**Department** - Information Technology

<b>Sr No</b>	<b>Academic Year</b>	<b>Count of Publication in Journal</b>
1	2025-26	20
2	2024-25	1

## List of Conferences

Paper ID	A.Y.	Department	Author(s)	Conference Paper Title	Conference Name	Publisher
CP202526_IT_1	2025-26	Department of Information Technology	Mrs. Shilpa A Pandey	Assessment of Various Machine Learning Approaches for Predicting Water Quality with Unbalanced Data	2025 5 th Asian Conference on Innovation in Technology (ASIANCON)	IEEE
CP202526_IT_2	2025-26	Department of Information Technology	Patil P.P.;Gupta S.	An Approach for Aspect Based Sentiment Analysis Using Multivariate Feature Extraction and Machine Learning	2025 1st International Conference on Aimi Applications for Engineering and Technology Icaet 2025	IEEE
CP202526_IT_3	2025-26	Department of Information Technology	Nalini Jagtap, Santoshkumar Chobe, Dr Swati Nikam, Pallavi G. Patil, Dr Suvarna Patil	Data-Driven Prediction of Football Player Positions Using Gradient Boosting Ensemble Models	2025 5 th Asian Conference on Innovation in Technology (ASIANCON)	IEEE
CP202526_IT_4	2025-26	Department of Information Technology	Akanksha Kulkarni, Nalini Jagtap, Shraddha Kalsekar, Tejaswini Patil, Shritika Wayker, Anilkumar Hulsure	The recruitai-A novel system designed to streamline HR operations by leveraging large language models (LLMs)	AIP Conference Proceedings	AIP
CP202526_IT_5	2025-26	Department of Information Technology	Nalini Jagtap, Akanksha Kulkarni, Pooja Mishra, Rashmi Deshpande, PP Shevatekar, Rachana Mudholkar	Demographics changes: Affecting Indian economics	AIP Conference Proceedings	AIP
CP202526_IT_6	2025-26	Department of Information Technology	Hemlata S. Gaikwad; Pooja abhijeet kadam;vrushali kondhalkar; Rahul P. More; Sachin M. Kolekar; Suhas Bhagwan Chavan	A Hybrid Quantum-Inspired Framework for Image Denoising and Feature Extraction in Low-Light and High-Noise Environments	2025 IEEE 5th International Conference on ICT in Business Industry & Government (ICTBIG)	IEEE
CP202526_IT_7	2025-26	Department of Information Technology	Rupali Shishupal, Samrat Gurav, Ayush Kudale, Shreyash Kunjir, Sahil Aher	Multimodal Deepfake Detection: A Comparative Analysis Across Audio, Video, and Text	International Conference on Interdisciplinary Technology & Science Convergence (FusionX Global) ICITSC 2025	SCITEPRESS
CP202526_IT_8	2025-26	Department of Information Technology	Rupali Shishupal, Kush Agrawal, Aastha Shinde, Varad Dongarkar, Chinmay Kakade	A Secure and Scalable Framework for Student Recruitment Using Blockchain and AI	8th IEEE International Conference on Emerging Smart Computing and Informatics (IEEE-ESCI 2026)	IEEE
CP202526_IT_9	2025-26	Department of Information Technology	Divya Punwantwar, Ayush Hinge, Tanish Jadhav, Abhijit Arote, Vishal Jangid	DevMate: A Real-Time Collaborative Code Editor with AI-Powered Development Assistance and State-Centric Synchronization	International Conference on Interdisciplinary Technology & Science Convergence (FusionX Global) ICITSC 2025	SCITEPRESS
CP202526_IT_10	2025-26	Department of Information Technology	Priyanka Deshmukh,Dr. rashmi Sonar	Adaptive Machine Learning for Energy-Efficient Resource Allocation in 6G Networks	6th International Conference on Multimedia, Signal Processing and Communication Technologies	IEEE
CP202526_IT_11	2025-26	Department of Information Technology	Jayshree Muley,Swati Salunkhe,Shreya Pawar,Neha Sundrik, Abhijit Mule	Safepath:AI-Based Road Condition Analysis and Alert System		
CP202526_IT_12	2025-26	Department of Information Technology	Purav Patel & Nalini S. Jagtap	A Novel Outlier Detection Approach Using ECOD, LUNAR and Logistic Regression	International Conference on Advances in Data-driven Computing and Intelligent Systems	Springer
CP202526_IT_13	2025-26	Department of Information Technology	Nalini Jagtap, Tejaswini Patil, Nijgururaj Ashtagi, Aditya Nerkar, Deepak Javalgi & Rohan Dagale	Enhanced Image Caption Generator Using Deep Learning	International Conference on Data Science and Applications	Springer

CP202526_IT_14	2025-26	Department of Information Technology	Kotteswari K.,Jayshree Dnyandeo Muley ,R.Tamilamuthan,J. KENNEDY,M.Lakshmanan,Shreyas Rajendra Hol	ML-Assisted Wavelet Harmonic Mitigation for Hybrid Microgrids	International Conference on AI, Data Science, Cyber Security and Smart Manufacturing for Sustainable Development	IEEE
CP202526_IT_15	2025-26	Department of Information Technology	Priyanka Patil, Dr.Sunil Gupta	A POSITION-PERCEPTIVE MULTI-HOP FUSION FRAMEWORK FOR MULTIMODAL SENTIMENT ANALYSIS OF MEDICAL DATA	International Conference on Interdisciplinary Technology & Science Convergence (FusionX Global) ICITSC 2025	Springer
CP202526_IT_16	2025-26	Department of Information Technology	Priyanka Patil ,Saniya Momin	Deep Learning-Driven Multiclass Categorization of Brain Tumors Using A CNN and GAN Hybrid Model	International Conference on Interdisciplinary Technology & Science Convergence (FusionX Global) ICITSC 2025	Springer
CP202526_IT_17	2025-26	Department of Information Technology	Pallavi Patil,Anuja Palhade,Nalini Jagtap,Pratibha Pati,Sadhana G,Kasturi N.	Towards Precision in Neuroimaging: A Guiding Framework for Hybrid Neural Architectures Integrating ILSTM-RNN and ERCNN-DRM for Enhanced Brain Tumor Classification.	International Conference on Interdisciplinary Technology & Science Convergence (FusionX Global) ICITSC 2025	Springer
CP202526_IT_18	2025-26	Department of Information Technology	Pallavi Patil,Anuja Palhade,Priyanka Deshmukh,Pratibha Pati,Sadhana G,Kasturi N.	Neutralizing Digital Misinformation through Advanced AI Detection Systems.	International Conference on Interdisciplinary Technology & Science Convergence (FusionX Global) ICITSC 2025	Springer
CP202526_IT_19	2025-26	Department of Information Technology	Pallavi Patil,Anuja Palhade	Detecting Fileless malware attack through windows registry analysis:A cybersecurity case study		Springer
CP202526_IT_20	2025-26	Department of Information Technology	Trupti Tekale ,arpita khade, meenakshi deshpande, tejal pakhale, aishwarya patil	AI Powered Food Nutrition and Calorie Detection	International Conference on Cognitive Informatics( ICCET 2026 )	Scopus
CP202425_IT_1	2024-25	Department of Information Technology	Swati Nikam, santosh chobe, singh, dhyagude, Raheja , dixit	Music Player system using Real time Facial Expression Detection	IEEE Proceddings - ICCUBEA24	IEEE



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**Summary of Book Chapter**

**Department - Information Technology**

<b>Sr No</b>	<b>Academic Year</b>	<b>Count of Publication in Journal</b>
1	2025-26	2
2	2024-25	1

## List of Book Chapters

BC ID	Department	Title	AY	Author(s)	Book Chapter	DOI
BC202526_IT_1	Department of Information Technology	Wood Wide Web: Integrating Artificial Intelligence in Forest Communication	2025-26	Arun Agrawal , Nalini Santosh Jagtap, Dipali Himmatrao Patil , Anju Lata Gajpal , M. V. V. S. Prasad , Vinaydeep Brar, Deepak Gupta , and Gaurav Dubey	Deep Learning Applications in Remote Sensing for Climate Change Monitoring	10.4018/979-8-3373-3501-8.ch009
BC202526_IT_2	Department of Information Technology	The pivotal role of artificial intelligence in digital twins: A case study	2025-26	Nalini Jagtap, Trisha Singh, Eshwari Sonawane	Transforming Industries, Empowering Societies	<a href="https://doi.org/10.1016/B978-0-443-32878-7.00014-6">https://doi.org/10.1016/B978-0-443-32878-7.00014-6</a>
BC202425_IT_1	Department of Information Technology	Blockchain-Based Secure Digital Twin Framework for Smart Healthy City	2024-25	Sneha Kanawade, Suvarna Patil, Shivganga Gavhane, Nalini S. Jagtap, Amit Bhanushali	Digital Twin and Blockchain for Smart Cities	<a href="https://doi.org/10.1002/9781394303564.ch8">https://doi.org/10.1002/9781394303564.ch8</a>