2025 International Conference on Pervasive Computational Technologies (ICPCT 2025)

Greater Noida, India
8-9 February 2025

Pages 1-500

IEEE Catalog Number: CFP255A3-POD
ISBN: 979-8-3315-1947-6

Copyright © 2025 by the Institute of Electrical and Electronics Engineers, Inc.
All Rights Reserved

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

****** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number: CFP255A3-POD
ISBN (Print-On-Demand): 979-8-3315-1947-6
ISBN (Online): 979-8-3315-0868-5

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

Table of Content

Sr. No.	Paper Title	Page No.
1	"Nutrient Recycling and Resource Optimization in IoT Based Integrated Poultry and Farming Systems" Mathiyarasan S, Udaya Raj Kumar R, Sabarimani B, Anbarasu P, Sathish A	1
2	"ReIoT-Powered Smart Agriculture in Controlled Environments" Phuke Rakesh Rao, Ramandeep Sandhu, Sardar M N Islam	6
3	"Exploring the Impact of Conditional Deep Convolutional Generative Adversarial Networks in Brain Tumor Image Classification: A Novel Approach" Shiv Ashish Dhondiyal, Abhay Upadhyay, Kuj Bihari Sharma, Deepak Upadhyay, Nookala Venu	12
4	"Automatic Vehicle Number Plate Recognition: A Narrative review of End-to-end Workflow" Alok Raj, Hiren Kumar Thakkar, Priyanka Singh	17
5	"Exploring the Capabilities and Limitations of Generative AI Applications, Challenges, and Future Directions" Dr. Gulbir Singh, Dr. Meenakshi, Poonam Sharma, Anjul Bhardwaj	24
6	"Enhancing predictive accuracy and interpretability through Explainable Deep Ensembles learning for lung cancer classification" S Shyni Carmel Mary, M D Ananda Raj	30
7	"Machine Vision Technique with Image Segmentation in Digital Diagnostic System for Lung Cancer Detection" Devyani Rawat, Sachin Sharma, Shuchi Bhadula	35
8	"Sentiment Analysis of Movie Reviews Using Machine Learning" Avantika Yadav, Payal Garg, Tarun Jain	41
9	"Neural Network Innovations in Next-Generation Optical Fiber and WDM Networks: Tackling Signal Degradation and Resource Optimization" Shivranjani Bharatbhai Gajjar, Vivekanand Mishra	46
10	"Cross Parametric Analysis and Neural Networks: An Improved Method for Human Diagnostics" Monali Gulhane, Nitin Rakesh, Sandeep Kumar, Mandeep Kaur, Ankita Tiwari, Arnav Jain	51
11	"Elongation of NFT Framework Using ERC721" Dr. Uma Tomer, Satyendra Vyas, Arun Mittal, Nagendra Nath Dubey	56
12	"IT CARRER SKILLS PREDICTION BASED ON STUDENTS INTEREST, ABILITIES AND COMPUTER LANGUAGE PROFICIENCY" Ms. Vandana Upadhyay, Dr. Parth Gautam	60
13	"Machine Learning-based Soil Analysis for Crop Forecasting" Raji Gupta, Shiv Prakash Singh, Rishabh Gupta, Saurabh, Shikha Agarwal	65
14	"Harnessing IoT and Machine Learning for Efficient Water Management in Urban Infrastructure" Divy Sharma, Praveen Kushwaha, Shorya, Amit Verma, Aarti Chaudhary	70
15	"Enhancing Security in Medical Imaging: Optimized Nature-Inspired Algorithms for Robust Watermarking in Gray scale Images" Vijay Krishna Pallaw, Pancham Kumar, Nawneet Kumar Pandey, Sandeep Kumar Singh	75
16	"Security Vulnerabilities in IPv6 Link-Local Networks: An Examination of DAD Mechanism" Pragya, Kartikey Shukla, Preeti Gupta, Gourav Tomar, Radha Raman Chandan, Basu Dev Shivahare	80
17	"Efficient HyperFused Model for Stratification of Concurrent Facial Expressions" A. Deepa, S. Ponmaniraj, V. Sheeja Kumari	85

18	"Unique Image Identification and Ownership Monitoring using Blockchain" Kanwal Preet Kour, Malvinder Singh Bali, Sameeksha	90
19	"Machine Learning-Based Biomarker Identification for Early Chronic Kidney Disease Diagnosis" Harwinder Singh Sohal	95
20	"Personalized Dementia Prediction Using Machine Learning Techniques" Jayashree S, Livedha S, T Ragupathi, Kumaran Hariharan, R. Sanjana, Dr Ginni Arora	101
21	"Predicting LinkedIn Post Reactions: A Comparative Analysis of Machine Learning Models" Jayashree S, Livedha S, T. Ragupathi, Kumaran Hariharan, R. Sanjana, Dr Shrddha Sagar	106
22	"Harnessing NLP and AI for Reliable News Verification in the Digital Era" Sunil Kr Maakar, Sagar Vishal Singh, Ahmad Zia	111
23	"Enhancing Fetal Health Prediction Using Machine Learning and Ensemble Methods" Arti Kori	116
24	"Wireless Network Coverage Optimization Through Dynamic Topology Control" Saurabh Kansal, Akhil Gupta, Hari Gupta, Vinay Acharya, Jayanth Kolli, Om Goel	121
25	"Secure Network Topology Design and Management Using Artificial Intelligence Framework" Vaidheyar Raman Balasubramanian, Akhil Gupta, Nusrat Shaheen, Srinivasan Jayaraman, Nandish Shivaprasad, Neelima Singh	125
26	"Quantifying Performance Trade-offs in Network Virtualization for Cloud Computing Environments" Guruprasad Govindappa Venkatesha, Rashmi Sharma, Venkatadri Marella, Vinay Acharya, Krishna Prasath Sivaraj, Samarth Shah	130
27	"An Evaluation of Cross-Layer Optimization scheme for Wireless Mesh Networks" Vikrant Rana, Rashmi Sharma, Srinivasan Jayaraman, Karthik Venkatesan, Nandish Shivaprasad, Ravi Mandliya	135
28	"Deep Learning Approach for Poultry Disease Classification and Early Detection: ResNet18" Jatin Sharma, Rupesh Gupta	139
29	"Leveraging XGBoost for Accurate Brain Stroke Prediction: An Innovative Approach to Data-Driven Healthcare Solutions" Ruchika Bhuria, Komuravelly Sudheer	144
30	"EfficientNet-B3 for Advanced Insect Classification: Achieving Superior Accuracy in Ten Distinct Classes" Shanvi Chauhan	149
31	"Advanced Animal Image Classification Using the Xception Model: Achieving High Accuracy in Diverse Species Recognition" Jatin Sharma	154
32	"Automated Classification of Fresh and Rotten Fruits Using ResNet50 for Enhanced Food Quality Control and Waste Reduction1" Jatin Sharma, Bura Vijay Kumar	159
33	"Unmasking Image Authenticity: Classifying Real and Fake Human Faces Using Convolutional Neural Networks" Shanvi Chauhan	164
34	"DenseNet-Based Approach for Early Detection and Classification of Alzheimer's Disease Using MRI Images" Parul Nasra, Sheifali Gupta	170
35	"Revolutionizing Cloud Security Through Creation Of Noise Images For File Encryption In A Cloud Based Environment" Dr.A.DEEPA, Dr.Rahin Batcha.R, Dr.T.Anitha, Dr. Usha Chauhan	N/A
36	"A Blockchain Application For The Authentication Of Certificates" A. Deepa, Subathra G., Vignesh Srinivasan	N/A

37	"Quantum Linguistics in Patient-Clinical Trial Relations for Improved Healthcare" Chandani Arora, Ramandeep Sandhu, Sardar M.N. Islam	186
38	"A Comprehensive Model Leveraging Convolutional Neural Networks for Online Transaction Fraud Detection" Sanskar Mishra, Anjali Goyal, Deepti Sahu	191
39	"From Traditional Banking to Fintech: Analyzing the Evolution of Online Loan Research" Dian Kurnianingrum, Okky Rizkia Yustian, Budi Supriatono Purnomo, Budi Rustandi Kartawinata, Isma Addi Jumbri	198
40	"ADHERENT-Net: An Adaptive Health Risk Estimation Network for Real-Time Environmental Tracking" M. Priyadharshini, V. Murugesh, Subrata Chowdhury, Bibhuti Bhsan Dash, Utpal Chandra De, Sudhansu Shekhar Patra	204
41	"FedEnv-Net: Federated Neural Network for Decentralized Health Risk Prediction in Dynamic Urban Environments" M. Priyadharshini, V. Murugesh, Subrata Chowdhury, Bibhuti Bhsan Dash, Utpal Chandra De, Sudhansu Shekhar Patra	211
42	"Intelligent Network Selection in Heterogeneous Wireless Environments Using Machine Learning" Arun Mulka, Pratik Agarwal, Shreyas Mahimkar, Pradeep Jeyachandran, Murali Mohana Krishna Dandu, Om Goel	217
43	"An Integrated Approach to Network Security: Combining Cryptography and Intrusion Detection" Sachin Bhat, Antara, Rashmi Sharma, Santhosh Vijayabaskar, Arpit Jain, Venkata Reddy Thummala	223
44	"Modelling and Analysis of Network Protocols for Mobile Ad-hoc Networks with Non-Ideal Conditions" Hemant Singh Sengar, Guruprasad Govindappa Venkatesha, Piyush Chauhan, Indra Reddy Mallela, Viharika Bhimanapati, Om Goel	229
45	"Detecting Phishing Emails Using Natural Language Processing" Aditya Gupta, Akshay Kumar Mishra, Kavita Arora	234
46	"Enhancing Breast Cancer Diagnosis with Vision Transformers: A Novel Approach using Mask-Guided Attention for Ultrasound Image Classification" Deena Sivakumar, Anamika Kumari, Divya Dharshini K, Samiksha S, Hemachandran M	239
47	"Gesture to Speech: Deep Learning Models for Real- Time Sign Language Interpretation" Pradeep Kumar Kushwaha, Nikita Srivastava, Bhanu Prakash Lohani, Amardeep Gupta, Kushagra Pathak	243
48	"Development and Simulation of a Robotic Arm Using ROS2: A Comprehensive Study" Tarun Singh, Pooja Anand, Satyam Kumar R	248
49	"Design of Multilayer PCB With SMD Components for Enhanced RFID-Based Security in Pervasive Systems" Lakshya Kumar, Pooja Ananad	254
50	"Game Theory-Based Power Control in Cooperative Wireless Networks" Abhijeet Bhardwaj, Piyush Chauhan, Siddhey Mahadik, Nalini Nadarajah, Venkatadri Marella, Anuradha Brijwal	260
51	"Enhanced Ransomware Classification with a Hybrid RF-SVM Framework Using PCA and RFE" Shweta Singh, Tejaswi Khanna, Deepak Kumar Verma	264
52	"Enhancing Network Resilience with Dynamic Traffic Engineering using Load Balancing Technique" Prof. (Dr) Punit Goel, Bhageerath Bogi, Monali Gulhane, Vaidheyar Raman Balasubramanian, Ashvini Byri, Saurabh Kansal	268
53	"Cooperative Wireless Network Clustering and Routing Using Ant Colony Optimization"	274

	Praveen Kumar Ilamurugan, Vijay Bhasker Reddy Bhimanapati, Piyush Chauhan, Shanmukha Eeti, DasaiahPakanati, Om Goel	
54	"Efficient Network Anomaly Detection and Mitigation Strategies for Large-scale Networks" Dheerender Kumar Thakur, Krishna Prasath Sivaraj, Monali Gulhane, Jaswanth Alahari, Rakesh Jena, Prof. (Dr) Punit Goel	279
55	"Optimization of Wireless Network Performance Through Intelligent Resource Allocation: A Game Theory Approach" Umababu Chinta, Sudharsan Vaidhun Bhaskar, Monali Gulhane, Varun Garg, Raja Kumar Kolli, Prof. (Dr) Punit Goel	284
56	"Network Security Threats and Mitigation Strategies in Mobile Networks: A Machine Learning Perspective" Venkata Reddy Thummala, Phanindra Kumar Kankanampati, Pratik Agarwal, Swethasri Kavuri, Ravi Mandliya, Arpit Goel	289
57	"Real-Time Gaze Tracking for Online Examination" Preyanshu Bisht, Suresh Kumar	294
58	"AI-Driven Smart Parking with License Plate Recognition" Rhythm Sarker, Dr. Janaki K, Caroline Panggabean, Thomson Gigi, Gagan P A	299
59	"Explainable Artificial Intelligence (XAI) in Insurance" Neha Verma, Dr. Ajay Kumar Varshney, Ritesh Kumar Singhal, Manu Priya Gaur, Ankit Garg, Sanghamitra Das	305
60	"Handcrafted AI: Designing Virtual Hardware for Hand Gesture-Based Interaction" Sarabjyot Chhatwal, Shivam Sharma, Sofia Singh, Manish K Ojha	311
61	"Cloud-Based Deep Learning for Weather Forecasting" Rupak Sharma, Pallavi Tyagi, Pooja Vajpayee, Deepti Gangwar, Umang Tyagi, Birendra Kumar Saraswat	316
62	"Big Data Analytics for Healthcare Resource Allocation" Brijesh Kumar Sharma, Khel Prakash Jayant, Purvi Pujari, Devendra Vikram, Manish Saraswat, Kajol Kathuria	321
63	"Cloud-Based AI Solutions for Personal Finance Management" Gurpreet Kaur Chhabra, Ashutosh Kumar Mishra, Varsha Tyagi, Chandra Mani, Vani Tyagi, Pramod Kumar Sagar	327
64	"Sentiment Analysis Of Indonesian Twitter Users Towards Panna Cotta" Caitlin Regynee, Michella Giselle, Shannen Angelica Christanto, Dian Kurnianingrum, Kania Alma Tiara	333
65	"Potential of Artificial Intelligence in Healthcare" Agrima Shrivastava, Sumit Chaudhary, Dinesh Kumar Singh, Mahaveer Singh Naruka, Nikhil Bisht	338
66	"IoT-Propelled Sustainable Aquaponics System for Enhanced Efficiency and Reliability" Akshit Gupta, Sumit Chaudhary, Mahaveer Singh Naruka, Dinesh Kumar Singh, Nikhil Bisht	343
67	"Utilization of Digital Twin in Sustainable Infrastructure Development" Bastav Dutta, Sumit Chaudhary, Mahaveer Singh Naruka, Dinesh Kumar Singh, Nikhil Bisht	348
68	"Explainable AI for Cardiovascular Health: A SHAP-Based Framework" Madhusai.B, Aarthi V.P.M.B, Jenila.C, Ajayreddy.B, Rekha Reddy.M, Mayuri.V	353
69	"Ethics in Natural Language Processing: Addressing Bias, Privacy, and Misinformation" Himanshu Sanjay Joshi, Hamed Taherdoost	359
70	"A Real Time approach for detecting and counting Vehicles using OpenCV and NumPy" Dr.Irala Suneetha, Ch. Prathima, Srinivasulu Sirisala, S. S.D.K Mahalakshmi, Dr.K. Balaji Nanda Kumar Reddy, Bosubabu Sambana	365
71	"Dynamic Network Modelling for Efficient Resource Allocation in Wireless Networks using Convex Optimization Technique" Vikrant Rana, Pavan Kanchi, Ankit Kumar Gupta, Srinivasulu Harshavardhan Kendyala, Balachandar Ramalingam, Niharika Singh	371

72	"Fake Currency Detection Using A.I" Pradeep Kumar Kushwaha, Kunika Pal, Bhanu Prakash Lohani, Amardeep Gupta, Dr Archana Chaudhary	377
73	"Challenges and Opportunities in Deploying Explainable AI for Financial Risk Assessment" Afsha Imran Akkalkot, Dr. Nitin Kulshrestha, Dr. Geeti Sharma, Dr. Kawerinder Singh Sidhu, Sneha S. Palimkar, Dr. Nethravathi K	382
74	"Using Machine Learning to Enhance Cybersecurity Threat Detection" Dr. Nilesh Parihar, Priyanka Fernandes, Swati Tyagi, Anuj Tyagi, Mohit Tiwari, Ahmad Y. A. Bani Ahmad	387
75	"The Ethical Implications of AI in Management: Navigating Challenges in Decision-Making" Sruthy Murugan Usha, Dr. Chandan Medatwal, Dr. Vutti Purendra Prasad, Dr. Muralidhar L B, Dr. Anurag Rai, Dr. Amit Verma	392
76	"Artificial Intelligence in Marketing Management: Enhancing Customer Engagement and Personalization" Charul Verma, Dr. Vijayalakshmi P, Dr. Nidhi Chaturvedi, Dr. Umesh U, Dr. Anurag Rai, Ahmad Y. A. Bani Ahmad	397
77	"Customer Experience Management in age of AI: Strategies for Personalization and Loyalty" Dr. G. Saravana Kumar, Samminga Ashok Kumar, Suman Chintala, Dr. Noor Firdoos Jahan, DR. M. SHUNMUGASUNDARAM, Dr. Nikhil Polke	402
78	"Optimizing Supply Chain Operations through Machine Learning: Opportunities and Challenges" Dr. D. Santhakumar, Gopalakrishnan Soundararajan, Suman Chintala, Dr. E. Bharath, Dr. Krishna Murthy Inumula, Kuldeep Chouhan	406
79	"Using Machine Learning to Enhance Personalization in E-Learning" Sneha S. Palimkar, Dr. Kannan Kunnathully, Srinivasarao Thota, Dr. Meeta Joshi, Afsha Imran Akkalkot, Nidal Al Said	411
80	"Machine Learning for Fraud Detection in Banking Systems" Dr C Murugamani, Dr. V. Sivakamy, Dr. V. Vimala, Dr. Padmalosani Dayalan, Khaleel Al-Said, Nidal Al Said	416
81	"Combining Convolutional Neural Networks with Reinforcement Learning for Autonomous Robotics" Dr. Mrutyunjay Padhiary, Swati Powar, DR. ANJU ASOKAN, Dr. M. Sundar Rajan, Khaleel Al-Said, Nidal Al Said	421
82	"A Framework for Evaluating the Effectiveness of Explainability Methods in Deep Learning" Ahmad Y. A. Bani Ahmad, Prithu Sarkar, Dr. Brijesh Goswami, Priyanka Rajesh Patil, Khaleel Al-Said, Nidal Al Said	426
83	"Blockchain-based security solutions for IOT networks: Analysing efficacy and implementation challenges" Gotte Ranjith Kumar, Mr. Chamaraju Y S, Umar M Mulani, Dr.R.Naveenkumar, Auadhati Datta, Dr.Budesh Kanwer	431
84	"Exploring blockchain solutions: Integrating cryptocurrency with IoT for enhanced security" M Shravan, Dr. Shital Kakad, Umar M Mulani, Dr. Geeti Sharma, Mohit Tiwari, Mary Shiba C	436
85	"Smart Antennas and Machine Learning: Enhancing Beamforming in Wireless Communications" A V V Sudhakar, Upasana Sharma, K. Visala, Dr.K.Suresh Kumar, Dr. Chirag Arora, Kuldeep Chouhan	441
86	"Using Convolutional Neural Networks for Image Recognition in IoT Applications" Durgam Rajababu, Sampenga Veerraju, Dr.K.Suresh Kumar, Dr. Sonali Gupta, V B Thurai Raaj, Rahul Joshi	446
87	"The Impact of AI on High-Frequency Trading: A New Paradigm in Share Market Dynamics"	452

	Kafila, Dr. Somanchi Hari Krishna, Dr. Nitin Kulshrestha, Dr. Kawerinder Singh Sidhu, Roy Budiharjo, Dr. Krishna Murthy Inumula	
88	"Deep Learning for Fraud Detection in Bitcoin Transactions: An AI Approach" M Shravan, E. Ajitha, Gioia Arnone, Mrs. Nekkanti Renu, Mohit Tiwari, Kuldeep Chouhan	459
89	"AI-Driven Threat Detection: Implementing Multi-Layer Security Networks in Cloud Environments" Dr. S. Surya, Dr. D. Santhakumar, Anuj Tyagi, Mr. Kiran Onapakala, V B Thurai Raaj, Dr. N. Krishna Kumar	465
90	"Chatbots and Customer Service: Enhancing Marketing Management with AI Technologies" Rajchandar K, Dr. Somanchi Hari Krishna, SHOWKAT KHALIL WANI, Dr. Supriya Pathak, Amit Kumar Jain, C M Naveen Kumar	471
91	"The Future of Marketing Management in Education: AI Applications and Innovations" G Swamy Reddy, Dr. Somanchi Hari Krishna, SHOWKAT KHALIL WANI, Suchitra Yadav, Dr. Kinjalkumar Narendrabhai Mistri, Sagita	477
92	"Computer Aided Diagnosis Multi-model System using Late Fuison and Ensemble Learning" Dr. M.Kani Priya, Gunabhiram Aruru, Nikhil Vanam, Dr. M. Suganiya, Dr. M. Salomi	482
93	"Robust Brain Tumor Classification using Transfer Learning and Convolutional Neural Networks" Shrundan reddy govind, bhavana moparthi, A.sheryl oliver, M.kituthika	489
94	"Enhanced Security In Matter-Enabled Iot Networks Through Anomaly Detection" Manjit Kumar, Kapil Sharma	496
95	"Anomaly Detection for Sensor Manipulation in Matter Enabled-IoT Devices with Faulty Data Injection" Jahnvi Patel, Kapil Sharma	501
96	"Sentence Embeddings Using n-Gram Features and Contrastive Learning for Multilingual Datasets" Mansi Singh, Harsimranjeet kaur, Enjula Uchoi	506
97	"Cervical Cancer Risk Prediction using SMOTE and Explainable AI" Priyansh Agarwal, Annanya Chaudhary, Dr. T. R. Sarvanan	512
98	"Automated Kidney Anomaly Detection Using Deep Learning and Explainable AI Techniques" Bobba Siva Sankar Reddy, Nelluru Laxmi Prathyusha, Dhulipudi Venkata Karthik, Kayala Vishnukanth, Venkatrama Phani Kumar Sistla, Venkata Krishna Kishore Kolli	519
99	"A Novel Deep Learning Model for Machine Fault Diagnosis" K Geethika, V Sowmya, K Ravi kiran, K Neelaveni, Venkatrama Phani Kumar, Venkata Krishna Kishore Kolli	525
100	"A Novel Transfer Learning-based Efficient-Net for Visual Image Tracking" Sowmya Sri Pul, Galla Karthik, Usha Polina, Sai Subbarao, Venkatrama Phani Kumar Sistla, Venkata Krishna Kishore Kolli	531
101	"A Triage System Based Approach With AI-Driven Management In Bugs Resolving Application" Praveshika Tiwari, Anuradha, Gagandeep Kaur Nagra, Rashmi Sharma, Nitin Rakesh, Birendra Kumar Saraswat	538
102	"Examining Acceptance of AI-Driven Robo-Advisors in the Gulf: An Adapted TAM Approach" Hitesh Gupta, Balamurugan Balusamy, Seema Singh	543
103	"Barriers Among Novice Day Traders in the Gulf and AI-Driven Pathways to Success" Hitesh Gupta, Balamurugan Balusamy, Seema Singh	550

104	"AI-Driven Mobile Healthcare: Societal Impact, Workforce Adaptation, and Enhanced Predictive Modeling for Diabetes Risk Assessment" Shreyas Rajendra Hole, Vinothkumar Kolluru, Ranita Gangul, Sagar Kolekar, Advaitha Naidu Chintakunta, Sudeep Mungara	557
105	"Long Short-Term Memory (LSTM) Networks For Stock Market Prediction" Anish Gupta, Lalit Kumar Tyagi, Vibhash Singh Sisodia	565
106	"Machine Learning For Smart School Selection And Admissions" Anish Gupta, Lalit Kumar Tyagi, Sandeep Kumar	571
107	"AI-based Learning Techniques for Bladder Cancer Detection" Sandeep Kumar, Saurabh, Ankita Aggarwal	577
108	"Machine and Deep Learning Classifications for IoT-Enabled Healthcare Devices" Lalit Kumar Tyagi, Anish Gupta, Vibhash Singh Sisodia	582
109	"Enhancement of underwater images using GAN and Refinement network" Kashish Saini, Surbhi Bharti, Ashwni Kumar	588
110	"Energy Efficient Location-Based XML Indexing in Real-Time Wireless Data Broadcasting for IoT Devices" Vikas Goel, Ashutosh Sharma, Mayank Singh, Amit Kumar Goyal, Vikas Jain	594
111	"Smart Ear Disorder Management with AI-driven Insights and Recommendations" M. R. Santhoosh, K. Akila	600
112	"Performance Evaluation of Open-Source LLMs for Text-to-SQL Conversion in Healthcare Data" Ishneet Kaur Chadha, Anshul Gupta, Subham Sarkar, Minakshi Tomer, Tripti Rathee	606
113	"Enhancement on Multi-speaker Speech Separation and Speaker Profiling" Senthil Kumar A, Girisha G S, Selvaraj Kesavan, Rajkumar Bojan, Nagaraj S	610
114	"A Systematic Review of Image Generation Models: Methods, Comparative Insights, and Available Datasets" Harshita Singh, Mukhila Rai, Laxmi Raguar, Jashlok Baliyan, Pawan Kumar Mall, Swati Vashisth	615
115	"Blockchain Technology: Reshaping Telemedicine and Telehealth Services for Emergency Management" Neelam Singh, Varsha Mittal, Vandana Rawat, Priyansh Kumar	619
116	"Empowering Senior Health Through Digital Literacy: A Review of Impactful Initiatives" Somya Jain, Anvesha Mishra, Anjali Varshney, Aashi Singhal, Pawan Kumar Mall, Swapnita Srivastava	625
117	"Analyzing Body Language and Facial Expressions Using Machine Learning Techniques" Harvendra Kumar Patel, Vijendra Rai, Hare Ram Singh, Rakesh Kumar	629
118	"Social Media Sentiment as an Indicator of Electoral Outcomes: A Study of Indian General Elections" Swati Arya, Amit Agarwal, Anshul Lakhera, Uday Sharma, Chitra Jain, Ankush Mittal	634
119	"Safe and Reliable Live-Streaming Traffic Monitoring System using OpenCV and Yolov8" Ashmit Bisht, Kuheli Sen, Neeraj Jain, Ravi Sharma, Pragya, Basu Dev Shivahare	639
120	"Sign Ease: AI-Based Gesture Recognition" Sudiksha Srivastava, Parvez Ali, Shivendram Yadav, Aaman Khan, Mr. Praveen Pandey	645
121	"A Comparative analysis of Network Modelling Approaches for Predicting Performance in Large Scale Networks" Khushmeet Singh, Pratik Agarwal, Vikrant Rana, Jayanth Kolli, Saketh Reddy Cheruku, Aravindsundeep Musunuri	649
122	"Optimizing Radio Resource Management in Multi-RAT Wireless Networks Using Reinforcement Learning"	655

	Sandhyarani Ganipaneni, Hari Gupta, Akhil Gupta, Chinmay Pingulkar, Bipin Gajbhiye, Prof. (Dr) Punit Goel	
123	"Comparative Analysis of VGG16, InceptionV3 and ResNet50 for Lung Cancer Detection in Medical Imaging" Nisha Vasudeva, Vivek Kumar Sharma, Pradeep Chauhan, Shivam Awasthi	661
124	"Detecting Digital Deception: A CNN-RNN hybrid Approach of Deepfake Detection" Harshpal Singh, Rakesh Kumar, Meenu Gupta, Venkata Suresh Babu Chilluri	666
125	"Utilizing Machine Learning Algorithms To Predict Chronic Kidney Disease" Harshpal Singh, Rakesh Kumar, Meenu Gupta, Vasubabu Machavarapu	672
126	"Digital Agriculture Platforms: Empowering Farmers and Enhancing Market Accessibility" Dr. Kavita T Patil, Shruti Patil, Harshada Patil, Madhavika Salunke, Shreyash Chandwadkar, Dr. Makarand Shahade	678
127	"Design and Development of Charity System Model based on Blockchain Technology" Dias Kamza, Praveen Kumar, Seema Rawat	683
128	"A Machine Learning Approach to Traditional Medicinal Leaf Recognition and Medical Use Recommendation" Nripendra Dwivedi, Ayush Gupta, Harsh Sharma	689
129	"Advances in Crop Monitoring Technologies: A Comprehensive Review" Divya Rawat, Shashank Awasthi, Manas Kumar Mishra, Ruby Faizan	695
130	"Teaching Machine Learning in K–12 Education: Potential and Challenges" Gissela del Pilar Aldana Bravo, Jesús Emilio Agustín Padilla Caballero, Jhonn Robert Ruiz De la Cruz, Kathy Flores Cabrera De Ruiz, Ruth Janet Toledo Purguaya, Obed Isaías Matías Cristóbal	701
131	"Edge AI in 6G: Vision, Technologies, and Applications" Vanessa Azucena Monzón Centeno, Jesús Emilio Agustín Padilla Caballero, Claudia Rossana Poma García, Jonathan Orihuela Flores, Wilmer Amado Huamán Malca, Carlos Alberto Ferrando Gómez	705
132	"Implementation of Adaptive Traffic Inundation Detection Technique in RPL-Based IoT Networks" K. K. Devi Sowndarya, N. Rajganesh	709
133	"Diagnosis, Prediction, and Risk Factor Analysis of Multiple Sclerosis Disease using Quantum Machine Learning Classifier" Jyoti Garg, Vaishali Mehta Wadhwa, Harminder Kaur, Rohak Tiwari, Vasu Mittal, Avinash Sharma	713
134	"Intelligent Control Mechanisms for Renewable Energy Integration Using Machine Learning Models" Suman Chahar, Kawaljit Kaur, Kuldeep Singh Kaswan, Kiran Malik	718
135	"Explainable AI in Blockchain System for Decentralized Governance" Suman Chahar, Kawaljit Kaur, Kuldeep Singh Kaswan, Jagjit Singh Dhatterwal	724
136	"Artificial Intelligence and Emerging Technologies for a Sustainable World – A Survey of Indian Corporates" Batani Raghavendra Rao, Anusha R Batni, Raghavendra S Navaratna	729
137	"Pervasive AI and IoT in STEAM Education: Advancing Future Learning Through Intelligent Systems and Computational Technologies" Nam Le, Hamed Taherdoost	735
138	"Preliminary Poultry Disease Identification: A Comparative Analysis of Classifiers Utilizing PCA for Improved Agricultural Health Surveillance" Purvi Chauhan, Vikas Goyal, Rahul Mukherjee, Ajay Yadav	741
139	"Deepfake Detection: Leveraging InceptionResNetV2 and LSTM for Enhanced Accuracy" Aradhna Saini, Attiuttama, Sheenam Naaz, Anushka Shivhare, Gaurav Dhuriya, Neha Yadav	746
140	"A Comprehensive Study of Case-Based Reasoning in Information Retrieval: An Artificial Intelligence Approach"	750

	Surabhi Solanki, Seema Verma, Prolay Biswas, Pulakesh Roy, Aparna Singh, Surbhi Sharma	
141	"Network Threat Monitoring System Using Machine Learning" Sai yohathaa sri R G, Rithika N S, M.Jamuna Rani	755
142	"Empowering Social Sciences with Data Visualization - An Insights and Explorations into Behavioral Patterns and Urban Dynamics" Raihana Parveen, Yeo Boon Chin, K. Naveen, B. Sonia, B.Ramana, G.LakshmiAlekhya	760
143	"Integrating Research on AI-Driven Hyper-Personalization: A Review and Framework for Scalable Social Media Campaigns" Shalmali Patil, Aparna Bhat, Nilesh Jain, Vishal Javalkar	765
144	"Navigating Deepfakes with Data Science: A Multi-Modal Analysis and Blockchain-Based Detection Framework" Shalmali Patil, Aparna Bhat, Nilesh Jain, Vishal Javalkar	771
145	"Stress reduction through Music using ESP8266" Renusree Manchigarla, Pullaiah Nidiganti, Dharani Buddha, Prasad Jammula, Cheedaraboina Durga prasad, Devineni Venkata Bala Sai, Veerabrahmam Kannalli	777
146	"Evaluating Agricultural Soil GHG Emission Models: A Critical Analysis of Identification and Future Challenges" Arnima Pathak, Dr. Monika Sharma, Dr. Devendra kumar	782
147	"Next-Generation Intrusion Detection: Navigating Challenges and Embracing AI" Mani Shivhare, Dr. Saru Dhir, Dr. Santosh Kumar Shrivastava	787
148	"Blockchain for Machine Learning: Security and Trust in Data Sharing" G Ravi Kiran, Mr. Nakka Maisaiah, Mrs. T V Divya, G V Subba Reddy, Prof. Dr. Sailaja Petikam, M. K. Sharma	792
149	"AI for Disaster Management: Predictive Models and Response Strategies" Dr. A. Shameem, Mrs. Devupalli Saroja, Dr. Damodar S. Hotkar, Dr. Bijaya Bijeta Nayak, Dr. Anand Pandey, SACHIN TRIPATHI	797
150	"Quantum Bootstrap in Microcanonical Ensembles: Computational Insights and Applications" Shujaatali Badami	801
151	"Smart City Cybersecurity: Leveraging Machine Learning for Advanced Ransomware Detection and Prevention" Yogeshwar Prajapati, Om Prakash Suthar, Krupali Gosai, Sushil Kumar Singh	807
152	"Comprehensive Framework for Analyzing Grammar Error Correction with GPT -3.5" Rajni Kant Munda, Abhishek Kumar, Ravi Kumar Burman, Biresh Kumar, Md. Shoaib Alam, Anurag Sinha	813
153	"Advancing Pediatric Appendicitis Diagnosis: Harnessing CNN and Hybrid Models with Ultrasound Imaging" Supritha Kulkarni, Sanchit Sharma, Manavi J, Vachana U, M S Bhargavi	818
154	"A Hybrid Model Combining Vision Transformer and Generative Pre-trained Transformer for Image Captioning" Hina Gupta, Jatangi y d m v Prasada Vishwesh, M.Jagadeesh, M.Sucharitha, Vitta Sai Pradyoth	824
155	"Optimizing Kidney Stone Detection with Vision Transformers and CNNs: A Transfer Learning Strategy" Supritha Kulkarni, Suhaas Rao S, Tushar Kumar Chopra, Yeshwanth S P, Bhanushree K J, Suneetha K R	828
156	"An approach Human Resource Information Systems (HRIS): A Hierarchical Deep Learning Framework for Predicting Employee Satisfaction" V. Betsy Hannah, Dr. Pijush Kanti Tripathi, Lidiya Elizarova, Sandeep Belidhe, Dr M V Rathnamma, Dineshkumar P	833
157	"SMS Spam Detection using Advance Naive-Bayes Approach" Yojna Arora, Neha Gupta, Yogesh Singh Rathore, Nidhi Bansal, Aina Mehta, Shikha Chadha, Ashwani Kumar	839

158	"Multiple Disease Prediction from Retinal Images Using Deep Learning Algorithm" B. Rishikesh, K. Karthikayani	844
159	"Revolution of Self-Learning in Education from Traditional Pedagogy" Aarush Aggarwal, Husanbir Singh Pannu, Varleen Kaur, Sanmeet Sidhu	850
160	"Enhancing IoT Security: A Comparative Analysis of Machine Learning Algorithms for Attack Detection" Muskan Garg, Dr Sima	856
161	"Exploring the Use of Machine Learning in Formative Assessment of English Speaking Skills" Dr. Sreela B, Dr Ch.Paul Krupakar, Orkhan Baylarzada, Dr. Bijit Das, Lakhya Das, Dr. Prema S	861
162	"Data Protection and Privacy in HRM: Challenges and Solutions with Blockchain" Ramesh R, Dr.P. Thamaraiselvi, Dr.Toopalli Sirisha, Dr.Nalla Bala Kalyan, Dr. Kawerinder Singh Sidhu, Dr. S. Jabeen Begum	866
163	"Machine Learning Algorithms for Cloud-Based Educational Games: Engaging Students with Adaptive Learning Systems" Ravindar B, Mahipal Reddy Podduturi, D KHALANDAR BASHA, Chinnem Rama Mohan, Ms. Geetanjali Popat Rokade, Dr. M. Kalyan Chakravarthi	870
164	"IoT-Driven Data Analytics: Transforming Digital Marketing Campaigns with Real-Time Consumer Insights" Bhavana Jamalpur, Diwakar Reddy Peddinti, Dr. Sudarshan A. Pawar, Dr. Aatish Dilip Zagade, Mahipal Reddy Podduturi, Dr Jyotsana Thakur	874
165	"Image Captioning Using Deep Learning: Bridging the Gap between Vision and Natural Language Processing" Rachana Ravindra Mudholkar, Dr. Kingshuk Srivastava, Dr. MD Javeed Ahammed, Dr. Niket Tajne, Sharayu Anap, R KAVITHA	879
166	"Combining Image Processing and Machine Learning for Object Detection in Complex Environments" Durgam Rajababu, Sri Bhargav Krishna Adusumilli, Chinnem Rama Mohan, Jayamangala sristi, Dr. T. Arun Srinivas, Dr. V. M. Gobinath	884
167	"AI in Social Media Marketing: Using Machine Learning to Analyze Trends and Predict Consumer Sentiment" Bhavana Jamalpur, Dr. Somanchi Hari Krishna, Dr. Romica Bhat, Mr. Sneh Binod Prasad, Dr. Sourabh Bhattacharya, Dr. Dhiraj Kapila	889
168	"AI and IoT in Digital Marketing: Enhancing Automation, Personalization, and Consumer Interaction" Suman Naredla, Madhulika singh, Dr. Nidhi Chaturvedi, Devleena Banerjee, Dr. V. M. Gobinath, Dr. Anil Tiwari	894
169	"Adaptive Learning Systems: Integrating IoT Sensors with Machine Learning for Dynamic Curriculum Adjustment" Mrudula kilaru, Dr. S. Surya, Mrs. Sindhu Boianapalli, Dr. S. Vijaya Kumar, Dr. Mamta Thakur, Dr. M. Kalyan Chakravarthi	899
170	"Machine Learning Techniques for Enhancing Security in Wireless Communication Systems" Dr. S. Surya, Rajshri Trimbak Ingle, Megha Saxena, Jaipal Reddy Poddutoori, Dr. Budesh Kanwer, Dr. Dhiraj Kapila	905
171	"Next-Generation CRM: AI, IoT, and the Future of Customer Relationship Management" Bandela Sathyavani, Dr. Nalla Bala Kalyan, Diwakar Reddy Peddinti, Dr. Karthick, Dr. Varsha Bihade, Dr. Anil Tiwari	911
172	"Detecting Bots in Misinformation Campaigns: Strategies and Societal Implications" Himanshu Mishra, Pallavi Singh, Melbin Kurien, Dr. Suhail Javed Quraishi	916
173	"Exploring Emerging AI and IoT Technologies to Enhance Customer Relationship Management in 5G Networks" Bandela Sathyavani, Jaipal Reddy Poddutoori, Dr. Sudarshan A. Pawar, Devleena Banerjee, Dr. Muralidhar L B, Dr. Dhiraj Kapila	921

174	"Sign Language Recognition using Deep Learning" Bablu Kumar, Shabanam Kumari, Tarun Kumar	926
175	"Future Trends in HRM: The Role of Artificial Intelligence and Automation in Shaping the Workplace" Dr. Aneesya Panicker, Dr. Somanchi Hari Krishna, Dr. Shaifali Garg, Dr. Prasanta Chatterjee Biswas, Dr. Melanie Lourens, K. Siva Kumar	932
176	"Smart Resume Analyzer: An Automated Approach for Recruitment Process" Kajal Rai, Pawan Kumar	937
177	"Enhancing Underwater Image Captioning Using Transformer Models and Augmented Terrestrial Datasets" Rohan Gamidi, M Hemasri, Tejaswi Muppala, Vinitha Chowdary A, Aiswariya Milan K, Suja Palaniswamy	943
178	"A Multi-Criteria Decision Making Approach for E-Commerce: An Evolutionary Study with Spring Boot Implementation" F. D. DAVIS, S. Hendricks, M. N. Adriana, S. Z. Ahmad, G. A. Lucas, J. U. Ahmed	949
179	"Integrating Random Forest and XGBoost For Accurate House Rent Prediction" Harsh Vardhan Singh, Santosh Kumar Srivastava, Nishant Kumar Pandey, Nitesh Kumar	955
180	"Personalized User Interaction in Web Applications using Adaptive LLM Model" Manoj Kumar Mahto, Durgesh Srivastava, Ranjit Kumar, Basant Sah, Hare Ram Singh, Sunil Kr. Maakar	961
181	"Proposal and Implementation of Neural Network-Based Approach for Secure Speaker Recognition Using Spectrograms" Arindam Bindlish, Vaibhav Gujral, Rosy Madaan, Praveen Kumar	966
182	"AI POWERED Cryptography for Secure Machine-to-Machine (M2M) Communication in IoT Networks" C Balarama Krishna, Saai Krishnan Udayakumar, Sri Bhargav Krishna Adusumilli, Chinnem Rama Mohan, Dr. T. Keerthika, Dr. Pankaj Mudholkar	970
183	"A Comparative Analysis of Machine Learning Approaches for Stock Price Prediction" Thrushna Matharasi, Sanjeev Lakkaraju, Isha Mukherjee	974
184	"Automated Fruit Disease Diagnosis Leveraging Machine Learning Techniques" Archna Goyal, Dr. Kamlesh Lakhwani	979
185	"Improving Data Encoding for Enhanced AI Performance in Complex Datasets via Quantum Feature Space Mapping: Harnessing Quantum Algorithms" Gurpreet Singh Walia, Sathiya Priya S, KV Karthikeya, D.Suresh, P Sudheer, V.Syambabu	984
186	"Big Data Clustering Algorithms: Improving Efficiency and Scalability for Massive Data Mining and Pattern Recognition" Shanmugam Muthu, G Ramesh Kalyan, V.Samuthira Pandi, Shobana D, Lakshmi Priya J, Jaishika S	990
187	"Classification of Operational Records in Aviation Using Deep Learning Approaches" Aziida Nanyonga, Graham Wild	996
188	"An Integrated Approach to Altitude Monitoring and Logging for Adventure and Scientific Use with Data Logging with Web Server Monitor" Shashank Awasthi, Prem Chand Vashisth, Purnendu Shekhar Pandey	1002
189	"IoT-Driven Cold Chain Management for Real-Time Monitoring and Alerts for Perishable Goods" Shashank Awasthi, Purnendu Shekhar Pandey, Vashisth	1007