

2025 3rd International Conference on Self Sustainable Artificial Intelligence Systems (ICSSAS 2025)

**Erode, India
11-13 June 2025**

Pages 1-641



**IEEE Catalog Number: CFP25DN7-POD
ISBN: 979-8-3315-3885-9**

**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:	CFP25DN7-POD
ISBN (Print-On-Demand):	979-8-3315-3885-9
ISBN (Online):	979-8-3315-3884-2

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

CURRAN ASSOCIATES INC.
proceedings
.com

**3rd International Conference on Self Sustainable Artificial Intelligence
Systems (ICSSAS-2025)**

11-13, June 2025

Table of Contents

S. No	Paper Title/ Author Name	Page. No
1	An Intelligent Framework for Helmet Detection and Traffic Violation Automation using Machine Learning Praveen Kumar S, Syed Ali Fathima R, Annu Sanjay Kumar, Nagothi Sai Praneeth, Vasimalla Prasanth Kumar	1
2	Advanced Ensemble Learning for Day-Ahead Wind Power Forecasting: A Novel Algorithm for Penalty Minimization Usha. N, P. S. Manoharan, R. Priyadarshini, D. Suriya Kumari	10
3	Assessing the Viability of On-Grid and Off-Grid Solar PV Systems for Sustainable Urban Housing D. Suriya Kumari, P. S. Manoharan, J. Vishnupriyan	16
4	Enhanced Population Density Monitoring and Traffic Control K Antony Kumar, Kethana Karthika R, CH. Vivek Kumar, Y. Laxmi Charan, Kumar Jeevika, Manivannan D	23
5	Smart Energy Management System using IoT and Machine Learning Vijaya Vardhan Kancharla, Guruvardhini Kolakani, Anantha Srinivas Kumar Kapalavai, Sumanth Mekala, Gopi Chand Nemalickanti	31
6	Comparative Analysis of Model Performance on CLAHE Enhanced Synthetic GAN Images vs Real Fundus Images Farjana U, Senthilnaathan K, Rohit M	36
7	Performance Evaluation of PSO and its Variants in Demand Side Management N. Prasad, V. Gokulavignesh, M. Mithun, S. Prince, T. Rajesh	43
8	Multi-Factor Authentication for Vehicle Advanced Fingerprint and Passcode System Pratheeba C, Ravichandran V, Sarathi S, Srinath M, Lakshmanan P	49
9	AI-Assisted Hit-and-Run Detection and Tracking Atharva Kaushik, Ismail Wangde, Swati Vaishnav	55
10	Animal Intrusion Detection using YOLOv9 M Ramya Sree, K Tejaswi, S Shalini, Arunkumar M S	62
11	Design and Implementation of High-Performance RISC-V Processor with Five Stage Pipeline on FPGA B. V. V. Satyanarayan, Nangedla Madhu, K. Srinivas	68
12	Automated Detection of Heart Abnormalities Through ECG Processing using NI LabVIEW G. Bhavya Sri, A. Rajendra, Ch. Jayaram, A. Rajappa, Prudhvi Raj Budumuru, G. Prasanna Kumar	76
13	FPGA Technology-based Design and Implementation Encryption Accelerator with Digital Image Blending in Wearable Medical Devices Ashokkumar K, Charulatha. R. T, Chandra Kala. R, Bhavani G, G. Karthikeyan, ATA. Kishore Kumar	82
14	Power, Performance and Area Analysis of Real-Valued FFT Architectures B. V. V. Satyanarayana, K. Hima Kiran, K. Mohana Pranitha, P. Chinnu, M. Mounika Devi, K. Pranay	88
15	Blockchain Method to Improve Security of Medical Certificates and Images in IoT-Enabled Digital Health Care System Jyoti Kashyap, Jitendrakumar Namdeo Shinde	96

16	XGBoost-Optimized Real-Time Financial Surveillance System for Fraudulent Activity Detection N. Krishnaveni, Dhanush Vasarla, Prasanth Baddipudi, Yesupogu Jaswanth	104
17	Safeguarding Heritage: Acoustic Fire Suppression with IoT for Museum Applications Kailasam Selvaraj, M. Kubendra Perumal, C. Renga Akash, V. Madhan Kumar, M. Sobika, S. Suruthi	111
18	Contoso Mortgage System for Customer Applications Development I. Vasudevan, Harshitha Madem, Praneetha Ganji, Muthu Gorla, R. M. Dilip Charaan	117
19	Parallelized CNN Architecture for Handwritten Digit Recognition on FPGA via Verilog Implementation Kadari Vamshi, Abhiram Pedamallu, Soudu Akilesh, K. Jamal, Kiran Mannem, M. suneetha	123
20	IoT based Energy Optimization for Smart Cities and Rural Electrification using Multilevel Inverters Vijayaraja L, Harish Kumar S, Gopinath N S, Aravindh Kumar A	130
21	Multi Face Recognition based Attendance Marking System using MTCNN with FaceNet V. Jeba Wesline Moses, Santhiya P, Getzi Jeba Leelipushpam, Stewart Kirubakaran S	135
22	GEO-Location based Attendance Tracking and Face Recognition System using ResNet Algorithm Adline Freeda R, Kruthika S, Hemapriya A, Jeffry Shiny S, Narendran M, Anju A	141
23	Leveraging Machine Learning for Predictive Analytics in Healthcare Management: Enhancing Patient Outcomes and Operational Efficiency Radha Waman Shinde, Swapna Narla, Ginoop Chennakkattu Markose, Goutham Kacheru, Ashif Mohammad, Bijoy Laxmi Koley	149
24	RF Efficiency Evaluation of SRR-based Fractal and Microstrip Arrays for S-Band Anitha G, Yashaswi C	155
25	Deep Learning and Machine Learning Techniques for Analyzing the Impact of Big Data and Analytics on Firm Profitability Sunil Joshi, Yogeshwari Laxman Giri, Sunil Kumar, Mohammed Al-Farouni, Seema Rani, Saji Vithal Vernekar	160
26	Strategic Deployment of Hydrogen with Nuclear-Renewable Synergy: Pathways to Carbon Neutrality and Sustainable Development Goals Doğan Çelik, Sunil Kumar Goyal	166
27	IoT-Driven Activities in Mining and Subterranean Operations Sudhir K. Routray, Sutapa Sarkar, Monika Singh, Mahesh K. Jha, M. Pappa, K. P. Sharmila	172
28	Intelligence Safety Detection and Hazard Monitoring using YOLO Algorithm V. Ashok Kumar, Y. Sai Datta Sri Krishna Tarun, V. Karthikeya Santosh Reddy, R. Mahesh Murari	178
29	Cuckoo Search Algorithm Features based Multi Kernel Support Vector Machine Performance Analysis for Detection of Battery Anomaly from Lithium-Ion Battery Gowri Shankar Manivannan, Rajanna S, Thejaswini T	186
30	Borewell Alert: A Proximity Detection System for Child Safety Menakadevi Nanjundan, Vedhashree S. K, Evangeline Persis G. P, Eniya M, DivyaPrashanth M, Durgeshai G	190
31	ParkAI: Real-Time Smart Parking Management using Hybrid YOLOv11-SSD Detection	195

	Balaram Reddy, Jebarson Raj, Vijay Vasanth Aroulanandam	
32	Privacy-Preserving Face Recognition for Smart Locks using TensorFlow Lite and BLE Thriloc. Kolla, Gonugondla. Lakshmi Pathi Vishnu, Syed. Mohammed Uvais, Gorantla. Jahnavi, Akey Sungeetha	201
33	Crop Disease Detection using Edge IoT Devices and YOLOv5-based Classification Yeluripati Bala Tripura Sundari, Kohila R, Sowmiya M, Nagarjuna Nallametti, Jeethu Philip, Keerthana N V	207
34	NASA's Satellite-Powered Air Quality Forecasting Gopi Kandimalla, Ravula Manisha, M. Sai Teja, Narra Nikhil	213
35	Automated Child Rescue System from Borewells using Artificial Intelligence and Wireless Tech K. Gopi, Parvez Anjum, CH. Prem Kalyan, M. Nandivardhan	221
36	Underwater Fish Detection using YOLOv11 and YOLOv12 Lokesh Kumar K M, N. Aishwarya	228
37	Vision-based Lane Detection System using CNN and Sliding Window Polynomial Fitting for Autonomous Vehicle S. Vignesh, M. Tamilarasi, N. Sathiyapriya, K. Karthikeyan, S. Hemalatha, K. Divya	233
38	Chao Orangutan Optimized Cascaded Controller for 5-Level Asymmetrical Multi-Level Inverter to Improve Stability in Islanded Microgrid Sridevi A, H R Ramesh	239
39	Wildlife Detection and Behavioral Analysis in Farmland using YOLOv8m and LSTM Maria Cybi, Emmanuel Joy, Suganthi Evangeline, John Paul, S Sanjai	246
40	Federated Vision Transformer for Kidney Stone Diagnosis Almas Begum, Alex David S, Hemalatha D, Sivagami S, S. Benisha, Vijayalakshmi V	252
41	Human Posture Analysis using Machine Learning Models Kartik Mittal, Reetam Kole, P. Kirubanantham	258
42	Ventilation Defects in Lungs from Isotropic Hyperpolarized MRI Automation Through Deep Learning T Padma, Atmakuri Harini, Nune Mounika, Alakuntla Saipriya	267
43	Aerial Surveillance for Waste Management Priyadarsini. K, Deepan Majumdar, Ripudaman Verma, Rishi Raj	275
44	Road Crater Detection and Damage Analysis for Smart Urban Infrastructure using YOLOv8 John Paul A, Emmanuel Joy, Suganthi Evangeline, Sanjay S, Maria Cybi G	281
45	Agricultural Supply Chain Management System using Blockchain R. PraveenKumar, M. AkhilReddy, A. Umesh, V. MaheshReddy	286
46	Proactive Railway Safety: ML-based Risk Prediction Praveen Kumar Rapolu, Pannala Ramya, G. Sai Teja, V. Rama krishna	293
47	Forecasting of Forest Blaze using Ensemble Learning Approach K. Rama Krishna Reddy, T. Sharanya, A. Harini, P. H. K. Arjun Chowdary	300
48	Multi-Modal Fusion and Transformer-Enhanced Learning for Real-Time Continuous Sign Language Recognition Rakesh Kumar M, Kumar P, Vaseekaran R	310
49	Few-Shot Learning for Blackhole Detection in IoT Networks Ebin Alex, Getzi Jeba Leelipushpam Paulraj, Stewart Kirubakaran, Immanuel Johnraja Jebadurai	317
50	Predictive Modelling of Dust Accumulation in Air Conditioners using Support Vector Machines P. Gopinath, Vijayalakshmi K, Gopi Krishnan P	325

51	Effective Adders and Multipliers in Image Processing Applications R. Murugasami, S. Sathiya	332
52	Integrating Vision Transformers and Predictive Analytics for Speech Emotion Recognition in Psychiatric Care M. Sahithya Shelly, S. Trishika Reddy, Ravi Uyyala, Padmavathi Vurubindi	339
53	Analysis of Yoga Position using Machine Learning based Approach K Antony Kumar, V. Geethakalyani, Aruna R	345
54	A High-Precision Clinical Decision Support System for Heart Failure Prediction using HF-PGANN Model Saravanan Parthasarathy, Vaishnavi Jayaraman, Pavithra S, Abishek S	352
55	Traffic Sign Recognition System using Advanced CNN Techniques A M V Pathi, Shaik Abdulla, Ragi Pavan Sai, Sirra Sushanth Prince, Tirumani Natraj, Pulidindi Raju	361
56	NetworkGuard: Enhancing Cybersecurity and Network Efficiency Through Data Insights Anand Magar, Pranay Junghare, Shrishti Kenjale, Srushti Korade, Aniket Kothawade	366
57	YOLOv8 based Object Detection with Custom Dataset and Voice Command Integration Ishita Singh, Nishtha Singh, Gracy Singh, Patteti Krishna	374
58	Zoom Gesture Interpretation: From Action to Voice Chitra S, Preethiga M, Nivetha V, Silambarasan S, SanthoshPrabhu A	382
59	Energy Harvesting Microcontrollers for IoT Sudhir K. Routray, M. Pappa, Mahesh K. Jha, K P Sharmila, Shruti M L J, Harsha B. K	388
60	Decentralization and Security Challenges in Blockchain-Enabled IoT Govinda Rajulu. G, L. Sharmila, D. Venkatesan, Peer Mohamed Appa M. A. Y. Jayaprakash Chinnadurai, Kalvikkarasi. S	394
61	Reinforcement Learning-Driven Multi-Modal Sentiment Analysis for Personalized Drug Recommendations Mahesh Muppidi, Sreeja Ponnagani, Swetha Sunnapu	400
62	Design a Power Efficient Output-Capacitor-Less Low-Drop-Out Regulator S. Kavi Priya, V. Uma Maheshwari, T. Yamini, V. Yuga Madhan	406
63	Smart Health Consulting System B. Mounica, G. Akshitha Goud, G. Vinaychary, Shaik Sadiq	410
64	EINS_AR: Enhanced Indoor Navigation System using Augmented Reality with Dynamic Path Adjustment J. R. V. Jeny, B. Sai Mahitha, M. Shashank, N. Vamsi Krishna	416
65	EVISAFE – Evidence Safety and Authenticity Framework Enabled by Blockchain J. R. V. Jeny, V. Sunitha Chowdhary, A. Nischay Reddy, P. Nikhil Goud	423
66	A Hybrid CNN-LSTM Deep Learning Model for Next-Generation OFDM Channel Estimation in Wireless Networks Shaik Nayab Rasool, Vijay Goud G, Sravanthi Chutke, Praveen Kumar Lendale, E. N. V. Purna Chandra Rao, Madhusudhan Akku	430
67	Deep Learning for Food Analysis: Real-Time Food Identification and Calorie Estimation with MobileNet Deepa J, Jagadeesh N, Lakshmi Prasad C, Teja Kumar M	437
68	Result Analytics Dashboard using Machine Learning D. P. Mhapasekar, Chavan Nilesh Vasant, Desai Pravin Pandurang, Ghatage Aditya Dhanaji, Govekar Gauresh Nandakumar	443
69	Cyclone Path Prediction and Impact Assessment on Coconut Tree Population using Machine Learning Algorithm Athira A R, Gokula Lakshmi K, Heltin Genitha C	449

70	E-Voting System using Blockchain Technologies R. Bhuvaneshwari, Ritvik Ramachandran, Faisal M U, Aswin K, Mohammed Safar R, Nived Krishnan V R	456
71	Driver Drowsiness Detection and Alert System K RajKumar, V Jethose, T Siva Deekshitha, P Arkitta Naaidu, N Chandra sekhar, K Viswa Teja	466
72	Robust Extraction of Masked and Occluded Text using Masked Vision Transformer and CNN Decoder Aparna. chiguru, Rajchandar. K	472
73	Harvest Predict: Predicting Crops Yield and Price using Machine Learning Insights Menaka R, Hansika M J, Keerthi G, Kavin S, Lokeshwaran C	478
74	Advanced Collision Detection for Smart City using Deep Learning K. Rama Krishna Reddy, P. Jeevan Kiran, P. Priyanka, R. Alekhya	484
75	Autonomous Vehicle Control with Liquid Time Constant Networks Anurag Sunil, Manoranjitham R	490
76	Q-MorphNet: A Quantum Clustering Model for Glaucoma Detection Chilukuri Rajitha, Pappula Praveen	495
77	Federated Reinforcement Learning for Optimizing Microgrid Energy Trading Networks: A Resilient Approach to Decentralized Sustainable Energy Systems Shubham Gupta, Kusumakumari Vanteru	501
78	Deep Learning Algorithm based Real-Time Pothole and Barricade Detection and Warning System for Autonomous Vehicles Keshava Perumal S, Shivaa R, Heltin Genitha C	507
79	A Novel Approach of IoT based Real Time Energy Monitoring for Oil Extraction Machineries Mahesh N, Naveenkumar D, Santhanalakshmi S, Priyadharshini P, Janadharshini V, Ashok S	514
80	A Predictive Framework for Marine Microplastic Pollution using Machine Learning and Spatial Analysis Epifelward Niño O. Amora	522
81	IoT-Enabled Device for Predictive Monitoring and Disease Management in Cow E. Chandralekha, Inturi Dhineesh, Ganta Lokesh Reddy, Tailuru Ganesh	531
82	Intelligent Adaptive Systems for Visual Training and Assistance B Swathi, Ishanvi Reddy	538
83	Leveraging LSTM for Accurate ETA Classification and Delay Prediction in College Bus Tracking Systems R. Adhi Lakshmi, V. Kaviyashri, M. Lakshmi Sri, G. A. Pradiba, R. Rubika	543
84	Multimodal Transformer-based Approach for Building Adaptive, Interactive, and Inclusive e-Learning Systems S. T. Bharathi, M. Kabilan, S. Bharath, A. Chandar Thirumalesh	551
85	Multimodel Forecasting of Technology-Focused ETFs using ARIMA and LSTM Sudhi Sharma, Utkarsh Anand, Vaibhav Aggarwal, Priya Jain, Aman Anand	559
86	Deep Learning based Integrated CNN and YOLOv5 Framework for Plant Disease Identification and Localization K. Kavitha, D. Anitha, Y. Santhosh Kumar Reddy, U. Geethanjali, A. Kiran, Sathvik Rangu	566
87	Multi-Modal Biometric System: Technological Applications and Future Trends Prerna, Sanjeev Indora, Dinesh Kumar Atal	573
88	LFC Enhancement in Seashore Side Distributed Generation with Electric	584

	Vehicle Integration by using Deep Q-Learning Network P. Sivakumar, M. Kaleeswari, A. Aswini, P. Manikandan, M. Manimalar, K. Sarenyadhevi	
89	Explainable Artificial Intelligence for Credit Card Fraud Detection Abisha M B, Jasper W. Kathrine, Antony Taurshia, Salaja Silas, Stewart Kirubakaran S	591
90	Audio-Visual Speech and Gesture Recognition using Dual Sampling Residual Attention CNN on Mobile Devices Chennaiah Kate, A Bhagyalakshmi, Jemi Gold P, M. K. Kirubakaran, K. Karthik, S. K. Malathi	599
91	Securing 5G-Enabled Cyber-Physical Systems: An Optimized Reflection Equivariant Quantum Neural Network Approach to DDoS Attack Detection Swathi B H, Arvind R, Shalet Benvin, Ramji Gupta, Ramya Maranan, R. Jayanthi	606
92	Sleep EEG Signal Analysis using Graph Embedding Simplicial Convolutional Recurrent Attention Network with Duck Swarm Algorithm Ibrahim Mohammad Khrais, Sheela S, Gaurav Sethi, D. Rosy Salomi Victoria, S. Nooray Sashmi, G. Vijay	613
93	MATLAB Simulation of Intelligent Routing in Wireless Sensor Networks using Machine Learning Techniques N. Bhavana, A. S. Sai Puneeth Theja, Dankan Gowda V, Ridhi Rani, Srinivas. D, I kumaraswamy	619
94	Multi-Constraint Multicast Routing for VANET using Hybridized Ant Colony with Artificial Bee Colony Optimization Algorithm Mary Jacob, Gopika S, Kurian George Cheripurathu	626
95	HyRA-WSN: A Hybrid Reinforcement-Attention Model for Intelligent and Energy-Efficient Resource Allocation in Wireless Sensor Networks P. Packiyalakshmi, A. Ramathilagam	635
96	Robust and Fault-Tolerant News Virality Prediction: An Integrated Approach Combining Text, Time, and Social Signals Satpreet Kaur, Sanjay Kumar Singh	642
97	Blockchain-based Secure Land Registration Enhanced with Machine Learning Ravi Kishore Poliseti, Revathi Miryala, Dhruva Bukka, Pawan Kumar Yelicharla	650
98	A Deep Learning-Driven Multimodal Behavioral Biometric Authentication System Utilizing Signature Analysis and Keystroke Dynamics Graeson Joshua Elijah, Mythily M, Stewart Kirubakaran S, Salaja Silas, G. Jasper W. Kathrine	656
99	Real-Time Blood Donor Prediction and Campaign Optimization using DNN-Autoencoder and MERN Architecture D. Vikkiramapandian, M. Ajay, R. Chowmyan, A. Ganesh Kumar	662
100	Automated Institutional Query and Feedback Processing using DistilBERT in a Unified Management System S. T. Bharathi, Dinesh Bala N A, Gokul E	670
101	Hybrid PSO-InceptionNet for Wearable Sensor Data Analysis in Elderly Fall Risk Assessment Sabeena B, Ranjeeth Kumar C, Vaishnavi K, Satya Subrahmanya Sai Ram Gopal Peri, Shamna Parveen S, Keerthana N V	678
102	A Brief Review of Supercapacitors: Comparison with Traditional Capacitor and Batteries, their Types, and Fabrication Processes Sanjay M. Hundiware, Shripad P. Mohani, D. J. Shirale	685
103	Revolution of Healthcare Data Security Through Blockchain Technology and IPFS: A Review	692

	Promodani Bala Gautam, Kriti Bhushan	
104	Predictive Modeling of Air Pollution Levels using Machine Learning A. Anish Babu, R. Kavitha	698
105	Enhancing Data Privacy in Edge-based Driver AI Monitoring Systems Through Adaptive Differential Privacy Paritosh Kumar Yadav, Sudhakar Pandey, Parth Pandey	703
106	Comparative Analysis of YOLOv5 and YOLOv7 for UAV-based Automated Road Damage Detection P. Kasi Visweswara Rao, P. V. Kishore Kumar	709
107	Smart Speed Enforcement using YOLOv8, Super-Resolution, and Exponential Penalty Model S Sanjai, Emmanuel Joy, Suganthi Evangeline, PraveenChandar, John Paul A, Maria Cybi	717
108	An Ensemble Deep Learning Models for Classifying Stages of Dementia D Femi, B Udaya Lakshmi, A Udayasri, V Sai Lalitha Sreeja	722
109	An Adaptive Machine Learning Framework for Real-Time Health Monitoring using IoT-based Physiological Data MD Sajit Pasha, Mohammed Ali Shaik	728
110	Performance Analysis of Routing Data Packets Energy Efficient in WSN Communication using LEACH Algorithm C. kumar, M. Chandra Sekhar, C. Ansar Basha, S. Danish	734
111	Phishing Website Detection using Machine Learning and Real-Time Email Notification System Jobi Jesmitha, Shibil Rahman M B, Sidharth N, Muhammed Nihal KP, Adharsh S, Amal Krishna M U	740
112	Next-Gen Train Delay Forecasting: A Logical Approach with Neural Schema Optimization A. Sridharan, Kumar Gaurav, Neetu Anand, Jayendra Gopal Thatipudi, Kalaiselvi K, Aarthi R	749
113	Non-Invasive Technology for Comprehensive Post-Accident Assessment T. Kamalam, Charunya D P, R. Yuvashree, M. Arundhathi, Sanjay K	756
114	AI-GIS Enabled Multimodal Framework for Wildlife Surveillance, Migration Shift Forecasting, and Poaching Risk Mapping Jyoti Kanjalkar, Prakash Sharma, Pramod Kanjalkar, Raj Khanke, Rushikesh Mane, Kunal Kharat, Kanad Kolhe	764
115	Transfer Learning-based DDoS Detection and Mitigation in a MATLAB- Simulated 5G Network Environment Shilpa S Chaudhari, Jyoti Tolanur, K A Varun Balaji, Kritika Sah, Lakshay Mahindro	772
116	Optimizing Automobile Purchase Decisions in India using Machine Learning and Multi-Criteria Decision-Making Techniques Kottala Sri Yogi, Dankan Gowda V, Atul Kumar Sahu, N Sudhakar Reddy, Kondayapalepu V V Siva Prasad, Rubaid Ashfaq	779
117	Multi-Agent System for Scientific Literature Search and Recommendation Aswathy K Cherian, Naman Srivastava, Samyak Varia	786
118	Latency and Throughput Analysis in 3D NoC Design for Streaming Platform Sridevi S, Indumathi G, Pappa M	791
119	Cognition based Smart Document Matching using Chatbot Technology Harsh Tomar, Ravi Sharma, Sahil Prakash	799
120	DeepSenseTrack: A Predictive Threat Detection Model for IoT Ecosystems using Hybrid Data Learning K. Dhatchayani, D. Vezhaventhan, P. Sandhiya, R. Renuga, A. Kogila, S. Varsha	805
121	VISIPEDIA- Automated Web-based System for Chemical Compound	813

	Analysis Akarsh Singh, Sampurna Saha, Suganiya Murugan	
122	Smart Soil Nutrient Monitoring and Crop Suggestion Analysis System using IoT S. Jabarullah, K. S. Shanthini, M. Umamaheswari	819
123	YOLO-Driven Adaptive Deep Neural Architecture for Automated Brain Tumor Segmentation in MRI Imaging K. Vinayakan, G. Malleswari, A. Srinivasa Reddy	830
124	Dual-Stage Hybrid Model for Glaucoma Detection using Adaptive Intensity Thresholding and Histogram Analysis M. Sunitha, A. Srinivasa Reddy	835
125	SomnoDx: A Real-Time Deep Learning Framework for Multimodal Sleep Disorder Diagnosis Shalini M, Gagan Kumar M, Daniel Dillon P, Arshad Irfan S, Sasirekha S P, Mekala N	840
126	An Intelligent System for Electric Vehicle Charging Station Discovery and Reservation using Real-Time Data Palanisamy K, Sanjay V, Sakthivel K, Vimal Raj T	847
127	Next-Gen Blockchain Solutions for Secure and Interoperable Healthcare Data Management Kanika Ragad, Subodh Daronde	852
128	Towards Safe Cities and Sustainable Transport Systems: Assessing the Correlation Between Non-Motorized Transport Facilities and Road Crash Incidents Jobert D. Dancel, Aryana Marichelle F. Repalda, Kriztel Mae M. Ruedas, Christ John L. Marcos, Kassandra Ghake C. Dionisio	858
129	IoT- Integrated Quality Monitoring of Cartridges in Sediment Filtration Systems for Water Purification Tamilvani P, Sarenyadhevi K, Manimalar M, Anitha M	867
130	Spatial and Multitemporal Analysis of Vegetation Cover in Madre De Dios, using Remote Sensing Techniques, in the Period 2013-2023 Luis Vega-Garay, Kevin Vilcarromero-Trujillo, Wilver Aucchuasi	876
131	Thyroid Cancer Prediction using Ensembling Techniques and Multi Modal Data Mahamood Hussain Mir, Karnam Sai Udaya Kumar, Billala Venkata Harsha Nandan, Akey Sungheetha, Erla Praneeth Kumar, Kalagandha Sri Harsha	884
132	Hybrid Model for Sentiment Analysis on Social Media Data in Dari-Persian Text Ruhollah, D. Muhammad Noorul Mubarak	890
133	Cloud Computing: Transformations, Opportunities, and Challenges G. Amudha, P. Gopika, Saranya G, Vinoth R, M. G. Dinesh, Siva Subramanian R	897
134	SmartPredict: A Software-based ML Solution for Personalized Diabetes Management and Risk Management Saswati Panda, Akash Purwar, Varad Moradiya, Kushagra Mehrotra, Variza Negi	904
135	Designing an Interpretable and Efficient AutoML Pipeline for Enhanced Data Analytics Imaad Hasan, Mohd Tausif	911
136	Deep Learning-based Intelligent Pest Detection and Management CH. Bharadwaj Karthik, B. Lakshmi Dhevi, Levi Vicliff SJ	917
137	Image Labeling using CNN with Web Application B. Venkata Srinivasulu, Y. Jasmitha, S. Thanvi Sree, J. Srinika	924
138	A Systematic Review on Phishing Attacks Detection Techniques based on	930

	Machine Learning Vikash, Anuj Kumar Sharma	
139	Adaptive Forged Phishing URL by using Machine Learning B. Venkata Srinivasulu, P. Sai Nikhil, G. Likhitha, P. Sai Teja	938
140	CureCall: AI-Powered Healthcare Chatbot Atharva Pagar	946
141	DEFENDAI: Enhancing Deepfake Detection with Hybrid Architectures using EfficientNet, XceptionNet, Vision Transform and LSTM M. Kavitha, Ritik Raushan, Priya, Rahul Kumar	952
142	Skin Cancer Detection with Images Processing in Deep Learning G. Sriram, N. Siva kumar	959
143	Context-Fusion: An Intelligent Retrieval-Augmented Conversational AI Framework with Multi-Model Support Minu Inba Shanthini Watson Benjamin, Angel Jean Vincy K, Rohit Yadav, Vasantha Sanjana Reddy Thippareddy, Badike Raju	965
144	Emotion-Aware Multi-Modal Feature Extraction using CNN-Bi-LSTM with Dynamic Emotional Saliency Indhumathi S, F. Mary Harin Fernandez	972
145	Nephrolithcipher: Decoding Nephrolithiasis Through Deep Neural Networks N Manjunathan, Tummalapally Ramya	978
146	AI & ML Driven Health Assistant for Disease Prediction and Management Beema Mehraj M, Anju A, Adline Freeda R, Madhankumar S, Srisai S, Sathish K	986
147	Agricultural Land Classification using Deep Learning B. Venkata Srinivasulu, Y. Jasmitha, S. Thanvi Sree, J. Srinika	990
148	Enhancing Anomaly Detection in IoT Network via Compression and Machine Learning Vignesh R, Thenmalar. S	996
149	Identification of Mental Distress in Social Media using Machine Learning B. Venkata Srinivasulu, P. Sai Nikhil, G. Likhitha, P. Sai Teja	1003
150	Predicting Market Entry Decisions of Investors Through Demographic and Emotion Intelligence Attributes: A Machine Learning Approach Prabhakaran S, V Rengarajan	1009
151	Enhancing Speech Emotion Recognition Accuracy using BiGRU Network K Priya, K Yashwanth, A Bhuvaneshwar, P Veeresh	1014
152	TIEO: Metaheuristic Driven Cost and Energy Aware Scheduling in Cloud Computing Sonam Marathe, Satish Kumar Manchala, Santhosh Kumar Medishetti, Narala Anusha, Meesa Sravanthi, Seegiri abhinand	1020
153	POA: AI-Driven Meta-Heuristic Scheduling Algorithm for Enhancing Resource Utilization in Cloud Environment C Veena, Ravindra Eklarker, K Shivakumar, Vunnam Asha Latha, Rani Sailaja Velamakanni, Santhosh Kumar Medishetti	1028
154	ASSA: Optimizing SLA Violation and VM Failure Rate for Task Scheduling in Cloud Environment Birapaka Harshath, Boddu Manaswi kalyan, Santhosh Kumar Medishetti, Ponnala Bhaskar, T Sujith Reddy, D Akash	1036
155	Privacy-Preserving Insurance Framework using Zero-Knowledge Proofs and Secure Multi-Party Computation Latha R, Alex David S, K Anitha	1044
156	Optimized DenseNet Model for Heart Disease Prediction from Medical Health Records R. Sivanathbabu, S. Kamalakkannan	1051
157	A Sentiment Analysis using LSTM-GRU Hybrid Model on User-Generated	1059

	Content S. Seethalakshmi, U. Marimuthu, Anju Mohan, K. S. Alakumarimuthu	
158	Deep Learning Handwritten Text Recognition from Ancient Manuscripts using Hybrid CNN Transformer with PARSeq Model Jenefa A, Srinithi B, T. M. Thiyagu, Catherine Joy R, P. Santhiya, Vidhya K	1066
159	Implementation of Hybrid DNN-BiLSTM Model in Biomedical Disease Analysis B Subbarayudu, B. Siva Nagendra, D. Sivamani, M. Sivani	1072
160	CropSelect AI: Enhancing Agricultural Decision with Machine Learning Kailasam Selvaraj, Rajkumar Pandiarajan, Alwar Balaji. J, Ravi Prasath. S. P, Boobalan. M, Karthick. S	1078
161	Vision Transformers with Contrastive Learning for Robust Wood Species Identification S Senthilvadivu, Alex David S	1085
162	Strategic Leadership and Digital Disruption: A Roadmap for Organizational Expansion using Adaptive Boosting (AdaBoost) Satya Subrahmanya Sai Ram Gopal Peri, Asokan D, Divya Goel, Anjali, Nalini Devi S, Keerthana N V	1091
163	Enhancing Diagnostic Precision: Advanced Neural Networks for Sleep Disorder Classification Sunkara Omesh Chandra, Jenefa A, T. M. Thiyagu, Vidhya K, Catherine Joy R, Stewart Kirubakaran S	1097
164	APB Protocol Verification using UVM Methodology Naveen kumar S, C. N. Marimuthu	1103
165	Deep Learning based Hybrid Approach for Crop Recommendation on the Basis of Soil, Environment and Market Commodity Data Priya Salunke, Jayashree Katti	1109
166	Federated Learning and Edge AI for Privacy-Preserving Diabetes Prediction in Healthcare Ayyappan G, Alex David S, V Loganathan, E Padma, S Ilavarasan, Subash A	1116
167	Brain Tumor Classification based on Vision Transformers and Modified Capsule Networks Y. Chandra Harsha, P. Pravallika Reddy, M. Dikshith, K. Meenakshi	1122
168	Face Morphing Detection for Identity Verification using Machine Learning D Femi, Nalamalapu Mohan Reddy, Kamjula Gayathri, S Sai	1128
169	Leveraging Machine Learning to Analyze the Impact of ESG Criteria on Firm Valuation and Financial Performance: A Comparative Study Surulivel S T, Raghavan N R, Prabhakaran S, Rengarajan V	1133
170	Deep Learning Approach to Diagnose Diabetic Retinopathy and Glaucoma in Human Fundus Images K. Manigandan, M. Anand	1139
171	AVATASIGN: Enhancing Sign Language Communication with AI Powered User Customized Avatars Adline Freeda R, Joseph Harshan B, Vikranthnivas D, Venkatesh P, Narendran M, Anju A	1146
172	Integrated LSTM and CNN Model - Cardiovascular Disease Prediction using Digital Twin A. Kalaivani, V. Asha, J. Sathya, Rakshita Nadagoud, Rajeshwari, Preethika KS	1153
173	Live Monitoring of Student Behaviour During Online Classes K. Gopi, G. Bhavana, K. Rohit Kumar, Shyam Vikas Bethe	1158
174	Enhancing Sentiment Insights from Amazon Reviews K. Gopi, G. Bhavana, K. Rohit Kumar, Shyam Vikas Bethe	1164
175	AI and Machine Learning Models in Cross-Asset Class Investment Risk	1170

	Analysis: A Case Study of Real Estate and Equities Markets Shaikh Sarfarazurrehman, Vijay Mane, Arya Doshi	
176	Employee Attrition Prediction using Machine Learning: A Data-Driven Approach for Workforce Analytics Veeramani R, V. Arunkumar	1178
177	AI-Driven Protein Discovery: Bridging Computational Innovation and Therapeutic Advancements Nur Mohammad Chowdhury, Md Saidul Islam, Subhra Dey, Ranjan Paul, Mohammad Abdul Kadir, Md Tohfatul Islam, Md Reza Un Nabi	1185
178	A Survey of Low-Light Image Enhancement Algorithms based on Deep Learning Huafei Zhao, Mideth Abisado	1191
179	Robustness Analysis of Machine Learning Models Against Data Poisoning and Evasion in Diabetes Classification Lourdu Mahimai Doss P, Gunasekaran M	1197
180	Enhancing Stroke Prediction Accuracy Through Outlier Removal and Dataset Balancing Suguna R, Preethy Rebecca P, Praveen Kumar Y	1204
181	Measuring Political Bias in LLMs using Fine-Tuning RoBERTa Model Rajathi V, Ansh Singh, Karan kumar	1213
182	Advanced Rice Yield and Soil Prediction using Deep Learning G. Pavan Sagar, Mesala Aravind, M. Vaidhehi	1219
183	Advanced Methodologies in Cervical Cancer Classification using Deep Learning and Ensemble Techniques Kanishka Duary, Jigyasha Rajgarhia, Viji D	1225
184	Secure Cloud Email Filtering and Search using Hidden Rules and Encrypted Keywords Vineela Madireddy, Bhagya Lakshmi Medam, Sai Vardhan Reddy Manne, Navaneeth Yadav Madhugani	1232
185	Developing Natural Language Processing Model using Git and GPT Shaik Arshiya Firdous, Vempala Shalini, V. Sri Harsha, K. Jamal	1238
186	Deep Learning-based Face Morphing Detection for Identity Verification Keerthi K, SreeKavya Cheruvupalli, Vaishnav V H, S Suchitra	1244
187	Deep Learning-based Potato Leaf Disease Detection for Precision Agriculture E. Chandralekha, K Siva krishna sai, R Sidhartha Varma, M Naveen Kumar	1251
188	AI-Powered Mock Interview Platform using Computer Vision, Natural Language Processing and Generative AI Tanishque Sharma, Anmol Singh, Sanjay Singh, Ganesh Gupta	1258
189	Eye Sight: Integrative AI for Non-Invasive Diabetic Retinopathy Detection using Pupillometry and Ensemble Deep Learning N. Mohana Suganthi, Kanagala Vineela, Malgireddy Siri Chandana, J Shiva Sai Chaitanya	1264
190	Strengthening Cloud Data Privacy: A Dual Access Control Solution Vineela Madireddy, J. Varsha, K. Ram Prasad, T. Sai Bhargava	1272
191	Intelligent Breast Cancer Screening using Deep Learning Models S. K. Manikandan, E. Pavithra, M. Nisha Angeline, A. Mummoorthy, Mohaideen. A, S. Vinayagan	1278
192	Full Stack Video Conferencing App using TypeScript and NextJS Srinivasa Rao Thumala, Vijay Mane, Tejas Patil, Prashik Tambe, Chinmay Inamdar	1285
193	Hybrid AI-Driven Framework for Differential Diagnosis of Viral and Non Viral Hepatocellular Carcinoma Markala Anjali, Maddela Ajay, Mukkerla Saiteja, Baddula Omkar Yadav	1292
194	Signify: A Transformer-based Approach for Real-Time Speech to Sign	1298

	Language Translation Kasi Viswanathan K, Karthikeyan M, Elatchuman RV, G. K. Sandhia, Girirajan S	
195	NLP and Deep Learning based Analysis of Social Media for Evaluating Public Sentiments Sornalakshmi R. R, Asha Sundaram, Murugan Ramu	1307
196	AI-Driven Brain Tumor Prediction using Feature Extraction and Machine Learning Classifiers Ayyappan G, Sathish B	1314
197	Malicious Website Detection using Machine Learning Sanjay Kumar, K Sri Krishna, Santhosh Jerome AR, VS Akash Barath	1321
198	Real Time Emotion Recognition using ML Mudit Joshi, Bhavika Mathur, Vibha Nehra	1326
199	Early Life Style Disease Prediction, Brain Tumor Detection with Chatbot and Doctor Appointment Booking Kadaganchi Sudhakar, Pasula Manish, Mavillapally Rohit, Shaik Kaleem Ahmed, Batharaju Sneha	1334
200	LexiAct: Large Action Model Performing Actions based on Voice Prompts Yash Chandrashekhhar Shetty, V. Bhavani Krishna, Vikhyath Rai MS, Shahir Bilagi, Venkatesh Bhat	1342
201	Encryption and Decryption in Quantum Cryptography A. Arulmurugan, Manoj S K, Panabaka Mahesh	1348
202	Cross-Device 2FA: Leveraging End-to-End Encryption for Enhanced Security Ravi Sharma, Adnan Ahmad, Vanshika Chandna	1354
203	Enhanced Genetic Disorder Detection using LLM A. Arulmurugan, Eswar Sudhan M, Akshay Shravan V, R. Ibrahim Mohamed Essa Mazik	1360
204	A Deep Learning Approach for High-Accuracy Brain Tumor Classification: Evaluating ResNet-50, U-Net, and EfficientNet-B4 S. Rohini, P. Vidhyasaraswathi	1366
205	MorphoVisionMapper: A Predictive Model for Structural and Morphological Image Analysis in Biomedical Applications G Chamundeswari, Prasanth Kamma, Gopinath D, Jishnu M S, Ch. Raja, Mohit Tiwari	1374
206	Mentor Connect: An AI-Driven Real-Time Mentorship Platform Rimjhim Mukherjee, Shreyus Rajiv, V. Angayarkanni, J. Kalaivani, P. Rama	1382
207	JudgmentGraph: Benchmarking Legal Knowledge Graph Construction from Supreme Court Rulings Ajay Mukund S, K. S. Easwararkumar	1388
208	Privacy-Preserving Vector Similarity Search using Homomorphic Encryption Srushti Mathur, Aayush Chhabra	1396
209	AI-based Real-Time Hand Sketch to Digital Image Transformation with Virtual Canvas N Jaya Sri, Kandregula Deekshitha, Abdul Toufeeq shaikh	1400
210	Automated Detection of Fake Brand Logos using a Multi-Stage Image Analysis and Machine Learning Approach A. R. Venodhani, Y. Asina Begum, E. Priya Darshini, G. Naresh kumar Redddy, G. Hanisha, P. Sai Pavithra	1410
211	Personalized Book Recommendations Driven by Emotional Analysis with NLP H Vinoth Kumar, A Sivanesan, P A Afsal, M S Don, V P Aneena, R Rudresh	1417
212	An Intelligent Multi-Cloud Storage Architecture for Cost-Optimized Data Synchronization	1424

	A. Ajeeth, H. Vinoth Kumar, M. V. Anand, S. Rashik, S. Arjun Dev, S. Sanoop	
213	Computational Urban Health Analytics: Forecasting Particulate Matter (PM _{2.5}) Concentrations and Mortality Risk Estimation using Ensemble Learning Jeffywin Kettyshia I, Getzi Jeba Leelipushpam Paulraj, Stewart Kirubakaran, Immanuel Johnraja Jebadurai	1431
214	Federated Learning for Privacy-Preserving AI in Healthcare Hemanth Dandu	1439
215	Forecasting the Impact of Interest Rates on Homebuyer Demand using Machine Learning Paras Doshi	1446
216	Enhancing Checkout Conversion Rates Through Machine Learning and UI/UX Design Patterns Divyanshu Abhichandani, Naga Ravi Teja Vadrevu, Sumit Abhichandani	1453
217	Multimodal Fusion of MRI and CT Images using VMD and LEM Techniques N. R. Rajalakshmi, L. Sharmila, Spandana S G	1460
218	AI-Driven Real-Time Severity Prediction for Cyber Attacks using Machine Learning Epifelward Niño O. Amora, Jose C. Agoylo, Jimson A. Olaybar, Josephine C. Muñasque, Patrick D. Cerna	1467
219	Machine Learning-based Classification of Dental Caries Levels with Deep Feature Extraction Masayu Alya Nur ‘Aini, Siti Nurul Aqmariah Mohd, Yessi Jusman, Sartika Puspita	1473
220	Enhancing Privacy in Location-based Services using K-Anonymity, L-Diversity, and Differential Privacy S. Saraswathi	1479
221	Diagnosis of Polycystic Ovary Syndrome using Machine Learning Algorithms Vineela Madireddy, Shaik Rehmat Sultana, Muddasani Ashvitha, Yadasu Ajay	1487
222	Predictive Maintenance Approach in Textile Industry using Machine Learning Baluprithviraj K N, Kalavathi Devi T, Madhan Mohan M, Dharuhn B V, Madhusuthan C, Jaidharun R	1493
223	Leveraging ARIMA and Prophet Models for Effective Sales Forecasting and Inventory Management G Jenifa, T Karthik, Alad Manoj Peter, Sivaramakrishnan Rajendar	1499
224	Stock Market Sentiment Prediction using Long Short - Term Memory and Generative Adversarial Network Vikrant Pawar, Roshani Raut	1506
225	Machine Learning Models in Breast Cancer Prediction: Performance Evaluation and Insights Hemalatha. D, N. Gomathi	1511
226	Improved Segmentation and Classification of Apple Diseases using an Optimized CNN Model Sathya A, Abirami M, Sujitha A, Muthuselvan S, Adline Freeda R, Bheema Mehraj	1519
227	Optimizing Pharmaceutical Supply Chains using a Hybrid CNN-LSTM Model for Accurate Medicine Demand Forecasting P. Priyadharshini, S. Keerthana, G. Keerthana Devi	1525
228	Automating Education: AI-Powered LMS for Personalized Learning and Consistent Evaluation using BERT	1533

	R. Divya, M. Surya, M. Yogeewaran, R. Sudalai Vignesh, S. Sathiyamoorthi	
229	CNN based Error Level Analysis (ELA) with Scores to Detect Digital Image Manipulation M Vasudevan, Chirangi Sireesha, Naravula Sumiya, Kambella Vishnu Vardhan, Thiruvaipati Sagar	1541
230	Geodesic-Enhanced Deep Learning Model for Brain Aneurysm Segmentation and Diagnosis Kashiraj vitthal kalshetti, C. Saicharan, B. Sumanth Naik, K. Sunil kumar	1548
231	Enhancing Sentiment Analysis with AI Insights and NLP: A Methodological Exploration Jajula Hari Babu, P. P. Sadhu Naik	1555
232	Deepfake Content Detection using Deep Learning Techniques Haripriya Devarajan, Issac Sathwik Vijay Palli, Azam Ahammed, Hemanth Reddy Kolagatla	1561
233	AI-Driven Real-Time Network Intrusion Detection using Machine Learning and Deep Learning Vivek Bagmar, Divyanshu Joshi	1569
234	Optimized Multithreaded Encryption for Enhanced Performance and Efficiency Vijay Mane, Sanskruti Shinde, Sumit Raina, Abhinav Tohare	1575
235	Project Pulse: A Scalable, Secure, and Smart Project Management Platform on Aws Antriksh Narang, Rekha K S, Nithya M R, Sumana K M	1584
236	Designing and Implementing Backdoor Attacks on Large Language Models: A Systematic Weight Manipulation Approach Navaneeth K M, Rohith Mathew, Kalaiselvi K	1591
237	Efficient Data-based Brain Tumor Classification Employing Grad-CAM Interpretability and Image Transformers Jyoti Rani, Shivani Mahendru, Parwan Singh, Ramandeep Kaur, Preeti	1597
238	The Role of AI in Personalized Mental Health Tracking Nongmeikapam Thoiba Singh, Abhay Kumar Sethi, Arun Thakur, Prince Sharma	1601
239	Gray-Level Co-Occurrence Matrix Feature-based Classification of Cervical Cytology Images using Neural Networks Maryza Intan Rahmawati, Siti Marhainis Othman, Yessi Jusman, Anani Aila Mat Zin, Nur Syuhada Mohd Nafis, Siti Nurul Aqmariah Mohd Kanafiah	1607
240	Applying Machine Learning to Enhance the Accuracy of Text-based Sentiment Analysis Pamulapati Phanindra, Tata Teja, Chinnamsetty Anil, Rambabu Kusuma	1613
241	Deep Learning Techniques for Automated Brain Tumor Detection in Medical Imaging: A Comprehensive Review Karthikeyan R, Muruganandham A	1618
242	Early Parkinson's Disease Detection Through Handwriting Dynamics Analysis with Encoder Tuning Decoder Attention Network with Kookaburra Optimization Algorithm Ibrahim Mohammad Khrais, Saranya. D, Gaurav Sethi, Ragitha Radhakrishnan, S. Nooray Sashmi, M. K. Subashini	1626
243	Quantitative Analysis of Stock Market Bubbles: Leveraging Machine Learning for Financial Predictions Yuvaraj. S, Chennai Kumaran. J, P Thamizhselvi, Pradeepa. M, Lourdu Mahimai Doss P, M. Gunasekaran	1633
244	Brain Stroke Prediction using Machine Learning and Neural Networks Models: A Comparative Study Syed Nawaz Pasha, Ramesh Dadi, Kola Vennela	1639

245	Machine Learning-based Assessment of Risk Factors for Acute Coronary Syndrome Shital Hajare, Rajendra Rewatkar, K. T. V. Reddy	1647
246	Soil Whisperer 2.0: Bio-Inspired Neural Networks for Predictive Irrigation based on Soil-Plant Feedback Loops Viji M, R. Jayaraj, M. Auxilia	1653
247	Zonal HNSW: Scalable Approximate Nearest Neighbor Search for Billion-Scale Datasets A Akhil, Sivashankar G	1663
248	Enhancing Early Detection of Maize Leaf Diseases: A Deep Learning Framework using SqueezeNet for Rapid Diagnosis Ravindra Sarjerao Kolhe, Tarun Patodia, Narendra Khatri, Amit Jaykumar Chinchawade	1671
249	Cardiovascular Disease Prediction Through Retinal Image Analysis using Deep Learning Sumedha Seniaray, Ayushya Prasoon, Deepak, Bhavya Jain	1677
250	Bug Triaging: A Comprehensive Review of Current Practices and the Path Ahead Prerna, Ranjana Beshra, Priya Singh	1685
251	Enhanced Heart Attack Prognosis using Machine Learning Techniques Rukumani Khandhan C, Gothai E, Seenivasan D, Kanagaraju P, Arun G, Aswika V G	1690
252	Designing A Static Malware Analysis Framework for Detecting Malicious Malware Code with Ghidra Siva Surya R, Varuneshan R, Heltin Genitha C	1696
253	AI Driven Software and Hardware Solutions for Smart Grid Energy Optimization Prem N, Ranjana Devi R, Reena Josephine S S, Birundha S	1702
254	AutoStreamML: The Effective Way to Train Machine Learning Model Data Insights M. S. Saranya, Sathya U, SakthiS, KasiViswanathanP	1710
255	KNN-based Speech-to-Text Conversion for Bangla to Enhance Regional Language Processing Aditi Nayak, Jasmita Mukherjee, Deepak Parashar, Nilesh Bahadure, Kshem Dikshit, Rahul Joshi	1716
256	Managing Network Security in IT Sector using the Suricata P. Chinnasamy, Chintha SivaKrishnaiah, Thuvva Anjali, Anuradha Kambalapelly, P. Varaprasada Rao, Divya Priya Degala	1721
257	A Structured Framework for Selecting Cloud or Fog Computing in Application-Specific Contexts Rajat Mishra, Dhawan Singh, Aditi Thakur	1729
258	Enhancing Physical Activity Intensity Estimation via Graph-Structured Human Gait Recognition A. Padmavathi, Shrivishnu A, Saravanan R, Aravind M	1735
259	Breakthroughs in Generative Adversarial Networks for High-Fidelity Image Synthesis Manoj Sethi, Bhavya Singh, Anupam Maurya, Arsh Roy	1741
260	Temporal Modeling of Classical Piano Music using GRU-based Recurrent Neural Networks L. Simhadri, K. Venkatesh, Ravi Uyyala, Padmavathi Vurubindi	1750
261	Enhancing Explainable Anomaly Detection: A Multi-Dimensional Entropy-based Approach Kaithapolayil Aziz Nishad	1756
262	A Hybrid Knowledge Graph-Deep Learning Model for Predictive Analytics	1762

	in Healthcare Worker Stress Management with Cloud Environments Hammad Faizvi, Syed Owais Nawaz, Kauser Ibrahim, Fayezi Siddiqui, Arshan Siddiqui, K. Anandakumar	
263	Deep Learning for Tomato Leaf Disease Detection and Classification Erapaneni Gayatri, Aravind. A, M. Madhusudhan Reddy, Sandeep. J, B. Venkata Lokesh	1769
264	Enhanced Biometric Authentication System using Deep Learning-based Multimodal Fusion M. Rajalakshmi, Labeeb Khan, Abhijit. R. Nair, Rishita Seetha	1774
265	Hybrid Phishing Detection System: Integrating URL Feature Analysis with Local Large Language Models for Enhanced Security K. Sandya, T. Sai Kartik Sharma, G. Vidyesh Reddy, M. Hemanth Kumar	1782
266	A Comparative Analysis of Multimodal Misogyny Memes using Deep Learning with Semi Supervised Learning Algorithms S. Karishma, V. Akila	1791
267	Enhancing Cancer Detection and Prevention using Advanced Deep Learning and AI Techniques Infant Shervin M J, Avishikta Maity, Selvaraj. P	1797
268	Photo-to-Sketch Transformation using Contour Accentuation for High-Quality Outputs Philomina Princiya Mascarenhas, Sannidhan M S, Niveditha, Dabis Camero, Jason Elroy Martis	1802
269	Diabetic Retinopathy Classification: Evaluating Logistic Regression and Random Forest for Medical Diagnosis Carmel Mary Belinda M J, Alex David S, Kannan E, Ruth Naveena N, Nuti Dhruv, K. Sunil Kumar	1808
270	Revolutionizing Drug Discovery: A Systematic Review of AI and Machine Learning Application Ismatul Jannat Chowdhury, Md Iqbal Hossan, Md Tanvir Rahman Khan, Tanvir Zobair Mahboob, Yadab Sutradhar, Md Rana Hossain, Md Masum	1814
271	Modeling the Risk of Sleep Disruption in Children based on Screen Time Behaviors using Unsupervised Learning Epifelward Niño O. Amora, Shella C. Olaguir	1822
272	Integrating Acoustic and Linguistic Feature Extraction for Enhanced Dementia Diagnosis Chettiyar Vani Vivekanand, Shamini Nayagam, Sreena Rajeev	1829
273	Comparative Study for Different Machine Learning Model for Parkinson's Disease Detection Anuraag Raj Narayan, Virender Ranga	1836
274	Enhancing Sigmoid Colon Cancer Diagnosis: XGBoost and CNN for Accurate and Rapid Detection G. G. Gokilam, M. Winson, Khaled Al-Qawasmi, Rajkumar Chadge, S. Ravi, S. Thenappan	1843
275	Detecting Students Stress and Fatigue in Online Learning using Machine Learning B. Moganapriya, F. Mary Harin Fernandez	1849
276	Optimizing Autism Spectrum Disorder Detection Through TAPAS-based Attention Learning Model C. Preethi, S. Gomathi	1855
277	Active Directory Open XDR Cyber Security Techniques to Detect Anomalies Judy Simon, Anoop Mohanakumar, Nellore Kapileswar	1860
278	Federated Deep Learning-Driven Cloud-IoT Framework for Real-Time Healthcare Monitoring and Privacy-Preserving Anomaly Detection Judy Simon, Nellore Kapileswar	1866

279	Multi-Source Data-Driven Intelligent Model for Credit Assessment in Agricultural Financing Shilpa Chaudhari, Sushmita Manna, K Vadivel, Latha Kamatchi S	1872
280	EDU-AR: Integrating and Optimizing Education Kriti Gupta, Kishan Singh, S Ramesh	1878
281	Adversarial Attack on Deep Learning Model Detecting SQLi in A Constrained Environment Aswin Harish Kuttaten, Kurunandan Jain, Prabhakar Krishnan	1883
282	A Cutting-Edge AI Model for Transforming Supply Chain & ERP Workflows Jay Prakash Ram, Manmohan Singh, Veeresh Tripathi, Jayendra Gopal Thatipudi, Sandeep Bhattacharjee, Praveena Kakarla	1889
283	Data Security in Cloud Storage using Advanced Encryption Standard 256 S. Bharadwaj, G. Indra Navaroj	1896
284	Transfer Learning in Chest X-Ray Analysis for COVID-19 Detection Vijayalakshmi Senniappan, Nithish K, Anurag P M, Senthil Kumar M	1903
285	Integrated Deep Learning Framework for Brain Tumor Classification using Stochastic Gradient Descent Algorithms Mohammed Sirajuddin, P. Sudhakar, A. Srinivasa Reddy	1911
286	Dynamic Class-Balanced CNN with Hierarchical Feature Extraction for Real-Time Malware Image Classification K Malathi, Md Afnan Faheem K, Manoj Kumar M, Hamsaananth A N	1916