

2025 4th International Conference on Sentiment Analysis and Deep Learning (ICSADL 2025)

**Bhimdatta, Nepal
18-20 February 2025**

Pages 1-591



**IEEE Catalog Number: CFP25UU5-POD
ISBN: 979-8-3315-2393-0**

**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:	CFP25UU5-POD
ISBN (Print-On-Demand):	979-8-3315-2393-0
ISBN (Online):	979-8-3315-2392-3

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

4th International Conference on Sentiment Analysis and Deep Learning
(ICSADL 2025)

18-20 February, 2025

Table of Contents

S. No	Paper Title/ Author Name	Page. No
1	Comparing Collaborative Filtering Algorithms in AI-Powered Recommendation Systems for E-commerce Najmuddin Aamer, Tanusha Mittal, Nantha Kumar Muthusamy, R. S. S. Raju Battula, Ajith P S, ManzooreElahi M. Soudagar	1
2	An Optimal Real-Time Routing and Clustering Protocol for UAV Networks based on Security Sophia S, Getzi Jeba Leelipushpam Paulraj, Yuvarajan D	7
3	Cryptographic Image Security using AES-XOR Approach Santhosh B, Kushmitha V, Samhita Bhat, Satyaki Mondal, V Joshitha	13
4	Exploring Artificial Intelligence Security: A Comparative Study of Adversarial Attacks and Steganographic Defenses Kema Prathyusha, J. Vinoj, K. B. Manikandan	20
5	Effective Summarization Techniques for Legal Document Analysis Neelima Gurrapu, J S V Gopala Krishna, V T Ram Pavan Kumar M, Raghu Dhumapati, Jeevana Sujitha Mantena, Kiran Kumar Reddy Penubaka	26
6	Development of Summarization Tool for Novels Dhanushree B, Megha V, Aditi S, Ananya S, Deepthi C	34
7	Pathology Data Mining and Biomarker Discovery with Novel Algorithms Yan Cai, Shuyan Sun	39
8	Novel Abnormal Data Mining and Detection Algorithm for Intelligent Systems Shaomei Xu, Yanling Fan, Bing Lin	45
9	Modeling Dynamics of Short Video Dissemination in Social Media Environments Considering Data Chain Zhou Guanghua	51
10	Redefining Platform Data Mining Paradigms with Sequential Quadratic Programming Considering Optimization Models Xiong Wenting	57
11	Novel Urban Rail Transit Feedback Information Collection with Mini-Xception Network Li Jun	64
12	Social Media Analysis for Criminal Behavior Detection: Methods, Application and Challenge Prachi Patel, Kush Bhushanwar, Hemlata Patel	70
13	Effective Minimization of Fraud using a Hybrid Novel Approach on Social Media N. Merrin Prasanna, Vijaya Chandra Jadala, S. Hrushikesava Raju, Nabanita Choudhury, S. Adinarayna, VV Jaya Rama Krishnaiah	76
14	Extracting Crucial Information from Lengthy Transcripts using Text Summarisation Preethi N. R, Revathi P, E. Paramaguru, N. Maryanna Harris, R. Meenu, R. Roselinkiruba	85

15	A Comprehensive Survey on Enhancing Stock Market Predictions through Machine Learning and NLP-based Sentiment Analysis Integration Nandigama Sathish, Bhavana Jamalpur	92
16	Sentiment and Tone Analysis of Reddit Posts using Python Aarti Amod Agarkar, Santushti Betgeri, Aryaraje Nimbalkar, Vedant Nikam, Chinmay Rane, Pruthviraj Motade	100
17	Enhancement of Channel Fading Modelling and Hardening through Reconfigurable Intelligent Surfaces in NOMA Communication Chiranjeevi Thokala, Damera Supriya, Begari Siri Angel, Anishetti SaiRaj Tripati	105
18	Automated Car Insurance Claim System using OCR and ResNeXt M. Jagadeesh, Sriviknesh, Kiara Ojha	111
19	RIDI-Hypothesis: A Foundational Theory for Cybersecurity Risk Assessment in Cyber-Physical Systems Ramakrishna Ramadugu	117
20	Key Applications and Challenges of Virtual Software Simulation Technology in Data Resource Searching Schemes Jiao Yueyue	124
21	Proactive Platform for Active Health Services (AHS) Considering Data Securities Peiping Wu, Wangni Xu, Xin Yu	130
22	Secure Photo Sharing Across Platforms using Blockchain Technology Nivetha K, Harini M, Harshinni V, Nivetha N, Tamilselvan P	136
23	Security in Bluetooth and Wearable Devices: A Survey Hardik Kumar, Hetal Bhaidasna, Kajol Patel	142
24	Decoding Public Opinions on Nusantara (IKN): Sentiment Analysis of Social Media Reactions to Nusantara Development using Logistic Regression and XGBoost Husnul Jannah, Jason Nathan, Brigita Christabel Surya Winata, Mediana Aryuni	150
25	Sentiment Analysis of Telegram App Reviews using Text Classification Models Lijo P Thomas, Juby Thomas, Vishnu Achutha Menon, Sateesh Kumar T K	158
26	Streamlining Financial Predictions: A Web Application for Stock, Cryptocurrency, and Market Sentiment Analysis Chettiyar Vani Vivekanand, P. Kumar, A. Amizhthini	164
27	Interactive Sign Language Learning System - A Comprehensive Application for Sign Language Alphabet and Word Recognition Chandrasekaran. R, Vijayaraj. S, Balakumaran. M, Arul Stephen. C, Abhijit. D, Soundarya. M. K	171
28	Ontology-Driven Semantic Web Framework with Sentiment Analysis for Risk Assessment and Diagnosis of Diabetes Mellitus Muruganantham A, Velmurugan R, Kumar R, M. Sundar Rajan, V. Sivaraj	177
29	Weighted Priority Linked Feature Subset Model with Enhanced Logistic Regression for Accurate Heart Stroke Prediction J Bramaramba, Mohammed Ali Shaik, Balajee Maram	183
30	Chronic Disease Symptom Checker with NLP Vinoth Kumar P, Arul Selvam N, Soundharajan P	189
31	Traffic Threshold and Potholes Detection Road using Supervised Learning Vani Lavanya A, Monish. D, Praveenraj N, Ezhil Dyana M V	193
32	Exploring Sentiment and Moral Dynamics in Children's Literature using Machine Learning: A Sentiment Analysis Approach Weena Mae G. Ampo, Epifelward Niño Amora	199

33	Genetic Algorithm Powered Bivariate Function Encryption for Robust Data Security N. R. Hariharan, R. Sai Ritheshwar, R. Suseendran, R. Meena, T. Kalaiselvi	209
34	Evaluating Automatic Annotation Techniques for Fine-Tuning Large Language Models in Financial Sentiment Analysis Ibtissam Youb, Mohamed Hamlich, Sebastian Ventura, Feras Al-Obeidat	215
35	Stacking based Enhanced Sales Forecasting for E-commerce using Ensemble Learning Approaches with Multi-Scaling Data S. Balaji, D. Manikavelan	221
36	Enhancing Healthcare Communication: A Study on Automated Speech-to-Text Conversion and Analysis of Doctor-Patient Dialogues for Improved Clinical Documentation and Patient Care Santoshi Deshmukh, Utkarsha Pacharaney	229
37	A Review on Advances in Sentiment Analysis: A Deep Learning Approach using Transformer based Models Tejas Vijayrao Kale, Sameer Mendhe	235
38	Deep Learning for Sentiment Analysis Gayatri Rokade, Radhe Ughade, Palash Gaurshettiwar	240
39	The Power of PDF-to-Audio Summaries in Modern Learning Dhanshri Kawde, Sameer Mendhe	245
40	Advanced Cyberbullying Detection: Integrating Pytesseract, Demoji and BERT for Comprehensive Textual and Visual Content Analysis Shoba L K, Pongiannan R K, Rimik Sahay, Deepansh Shukla, Sourav Govind PS, Telugu Maddileti	250
41	Optimized Stacked Sparse Autoencoder for IoT-Cloud Smart Healthcare Networks Baba Fakruddin Ali B H, L. Gunganathan, Prasanta Kumar Parida, D. Samundeeswari, Sridhar S	256
42	IoT Security Enhancements in Smart Healthcare using Federated Learning Surekha lanka, Taipida Moodhitaporn	263
43	Leveraging LLM-Powered Chatbot for Learning and Optimization in Databases and Information Systems Education Vinoth Nageshwaran, Sathish Nageshwaran	268
44	A Semantic Driven Framework for Energy Efficient Task Scheduling in Dynamic Cloud Environment Aarav Kannan J, R. S. Amshavalli, Venkateswara Reddy D, Vegesna Surya Vinay Varma, G. Kavitha	274
45	Implementing Resource-Aware Scheduling Algorithm for Improving Cost Optimization in Cloud Computing Kiran Jagannadha Reddy, Pamula Udayaraju, Venkata Pradeep Reddy Pamaiahgari, V. Dilip Kumar	282
46	Leveraging Big Data Analytics and Applied Mathematics for Predictive Maintenance in Industrial Automation Systems Nelson Lungu, Sudhansu Shekhar Patra, Bibhuti Bhusan Dash, Utpal Chandra De	288
47	Towards Early Stroke Prediction: Detecting Hidden Patterns with Data Analytics Priyanka P. Shinde, Varsha P. Desai, Gayatri S. Mirajkar, Kavita S. Oza	295
48	Integration and Performance Evaluation of Big Data Real-Time Stream Processing Framework in Dynamic Tracking Analysis Xiao-Mei Yang, Ju-Ling Zhang, Lei Wu	303
49	Methodology to Improve Interaction in Educational Processes based on Virtual Reality Techniques	309

	Elizabeth Arrieta-Amaya, Wilver Auccahuasi, Haymin Ruez-martinez, Nelly Caceres-Tovar, Daniel Yucra-Sotomayor, Martha Romero-Echevarria	
50	An AI-based Intrusion Prevention System to Enhance Cloud Security Sarumathy P, Rajasree S, Chandrasekar A	313
51	Revolutionizing Healthcare: The Role of AI and Big Data Analytics in Disease Prevention and Management Vaishnavi Gatkine, Praveen Kumar, Palash Gourshettiwar	321
52	A Preventive Environment for Pest Over the Crops using Simplified Network Architecture Kuhanraja A R, Ramkumar P, Balaji S, R. Santhosh	325
53	Intelligent Energy Harvesting from Biodegradable Waste using Wireless Sensor Networks and Machine Learning Techniques Kannan K, Jackulin Asha G S, G. Shobana, Sharanya C, Beulah David D, Sheeba Rani S	331
54	ImConv_RNN: Improved Convolutional Recurrent Model based Channel Estimation for 6G Networks Raghavendra Kulkarni, Venkata Satya Suresh Kumar Kondeti, Binu Sudhakaran Pillai, Surendran R	338
55	Enhancing Connectivity of AODV in Urban Scenarios for VANETs: A QoS- Aware Approach J Jesy Janet Kumari, Thangam S, Archishman Ghosh, Dhruv Vijay Kolhe, Soumish Ghosh	346
56	Smart Sports Video Tracking and Safety Solutions Integrating GPS and Satellite Communications Sui Ying	355
57	Design and Performance Evaluation of Triangle Aero Array Antennas for Next-Generation 5G Wireless Networks G. Sivarama Subramaniam, Suresh Kumar Muthuvel, M. Bhoopathi, P. Sridhar, P M Dinesh, Puneet Narayan	361
58	Developing a Robust Intrusion Detection System using SMOTE and Hybrid SVNN Model B. Kiranmayee, M. Sharmila Devi, Kalva Susheela, Raghu Dhumpati, Kiran Kumar Reddy Penubaka, U Ganesh Naidu	369
59	ImageGuard: Advanced User Authentication via Dynamic Graphical Password Manipulation and Secured Image Sequences M. Dhinesh, B. Geetha, Sathish P, Lavanya Saravanakumar, P. Sebastian Vindro Jude, Allam Balaram	377
60	Social Network Recommendation Systems: A Review on Cold-start Problems Duc M. Cao, Hieu V. Vo, Hoang N. Tran, Luong Vuong Nguyen	385
61	Person Re-Identification using Siamese Triplet Network Aparna Menon, Yashwanthika R, Shreya J V, K Somasundaram, Senthil Kumar Thangavel, Shreeya Asawa	391
62	Solving IT Challenges with Digital Twins: A Simplified Approach for Enhanced Efficiency Devashish Pandey, Deepti Sharma	398
63	Risk Zone Awareness: Detecting Black Spots and Alerting Users to Potential Hazard Priya Karemore, Rupali Umbare, Viraj Sonawane, Atharva Kanase, Abhishek Gholap, Sunil Naunde	406
64	Secure Medical Image Transmission using the RLCD Algorithm Sheeba Joice C, Hitha Shanthini S, Harsha K, Gopika S	412

65	Real Time Health Data Management in WBAN for Remote Patient Monitoring S. Jegadeesan, A. Monisha, M. Pooja Shree, T. Sasirekha	417
66	Smart Gloves for Communication: A Survey on Technology for the Hearing and Speech Impaired Anitha A, Bhuvan Singh Rajput, Aneelkumar Madarkhandi, Mahendra Naik, Nishanth V K, Naresh Kumar R	424
67	Automated Inter-Hospital Communication for Bed Allocation Akila Priya Varshini M, Kashvi R, Pushpa Varshini A, V. Nirmala, V. Vidhya	430
68	A Robust Protocol Design to Perform Data Communication Over Wireless Sensor Networks with Enhanced Privacy Preserving Principles Bandela Sathyavani, Rakesh Kumar Yadav, John Shiny J, Revathi. R, Ashish Kumar Bulakh, Shilpa Jain	436
69	Method for the Management of Wireless Networks in Health Care Facilities Wilver Auccahuasi, Arturo Costa-Torres, Liliana Agustini-Paredes, Manuel Landa-Rojas, José Gamonal-Montoya, Liliana Sosaya-Rodriguez	443
70	From 5G to 6G: The Role of AI, Machine Learning, and Deep Learning in Wireless Systems Pradnyawant M. Gote, Praveen Kumar, Prateek Verma, Prajyot Yesankar, Adesh Pawar, Saniya Saratkar	447
71	A Review on the Role of Blockchain Technology for Decentralized Identity Management: A Future Without Passwords Rohini Raut, Gayatri Thakre, Palash Gourshettiwar	453
72	5G Technology and Impact on Modern Engineering Priya Kate, Utkarsha Pacharney	460
73	Analyzing the Impact of Implementing Internet of Things (IoT) Security Systems for Achieving Sustainable Cities Reepu	465
74	An IoT-Driven Performance Evaluation Framework for Secure Healthcare Monitoring Systems Aswathy R H, Suresh P, C. Mani	470
75	AI-Driven IoT System for Water Quality Assessment and Leakage Prevention Veeraprasanth A, Sriramnath K, Suresh P, Elango M K	476
76	Real-Time Indoor Target Tracking using IoT and Wireless Sensor Networks Sachin R. Katakwar, Kapil K. Jajulwar, Surekha Tadas	482
77	IoT based Agricultural Monitoring and Alert System V Vishnu Priya, Nisanth G, Dhanushree D, M. Sindhu, Varshini T, Pretoka A T	488
78	IoT based Smart Irrigation Water Management System B. Baranitharan, Ch. Chandra Sekhar Dhanush, K. Yuvaraj, Bireddy Gowtham, R. Mahalakshmi, K. Madasamy	496
79	Mitigating Cybersecurity Risks in IoT: A Layered Approach to Threat Detection and Prevention Deepshikha Aggarwal, Archana B Saxena, Deepti Sharma	501
80	Performance Analysis of Hybrid Metaheuristic Cross-Layer Optimization Algorithm (HMCLOA) in UAV-based IoT Networks Rajashekar A, Dharamendra Chouhan	506
81	A Review Analysis on Smart Blind Stick using IoT Asha P K, Shanmugha Priya R K, D Nagaraj, Aswini S, G Preethi Wilson, Vinoth Kumar K	514

82	Automated Parking System using IoT S. Dhanasekar, S. Hariyeswanth, E. Guruprasath, A. Amith Sriram, P. Arjun, S. Ramkumar	519
83	Smart Bin System based on IoT for Effective Food Waste Management V. SreengaNachiyar, R. Chandralekha, R. Kasi Raman, V. Krishnameera, A. Guna, S. Harini Shriram	525
84	IoT based Monitoring System for Health During Menstruation Chinmaya Khadse, Shital Hajare, Nishad Sheikh, Roshni Dahule, Priya Kate	531
85	Analysis of Robotic Health Care Assisted Surgical Device Doctors, Hospitals and Engineers A. Padma, M. Ganeshwar Rao, Swatmaram, P. Suresh, Vidhisha reddy Vancha	539
86	Fuzzy Logic based Temperature Control System for Boilers K. Prabhu, S. Vijayachitra, Sachin A, Subasri J, Kavin E	544
87	Unleashing WSN Potential: Bowerbird Optimized Energy-Conscious Multipath Clustering with Causal Dilated Cosine for Enhanced Load Balancing Rakesh Kumar Joon, Anitha R, Saravana Selvan, P. S. Latha Mageshwari, S. Gayathri Priya, K. Malathi	550
88	Design and Evaluation of A 6T SRAM Cell using 90nm Technology in Vivado Xilinx IC Design Sheeba Joice C, Jenisha C, Hitha Shanthini S, Desika R, Kirthana D	557
89	Customized Graph-Cut Segmentation with Superpixels for Snowfall Detection on Solar Panels V. Pavithra, B. R. Danisha, V. Divyadharshini, H. James Deva Koresh	562
90	Design and Development of Hybrid Quadratic Boost Converter Karthikeyan P, Karthik M, Sowndarya R, Sanjeev Gandhi S, Sundaresh E S, Gowtham P	569
91	Development of Fast Prediction System of User Action for a Fully Autonomous Smart Home System N. R. Rajalakshmi, L. Sharmila, S. Prabu, T. Veeramakali, G. Arulkumaran, Pranshu Chourasia	573
92	Navigation of Mobile Robot with Nav2 and SLAM using LiDAR Suwash Shrestha, Sudip Parajuli, Pawan Shah, Basanta Shrestha, Manoj Kumar Guragai	579
93	Fine-Tuning the BERT Model to Predict Depression and Anxiety using Multi-Labeled Twitter Data Lamia BENDEBANE, Zakaria LABOUDI, Asma SAIGHI, Seif Eddine BOUZIANE	586
94	Design and Implementation of Cotton Fiber Collector System for Textile Industry Jagadeeshraja M, Kamatchi Kannan V, Balaji Periasamy, Kathiresan R, Rekha P, Srinithi P,	592
95	Pixel Precision – Real Time Image Segmentation for Autonomous Cars Dyagala Naga Sudha, Rowthu Neelima	597
96	Fall Detection using LiDAR Sensor with PointNet++ Anish Sai Ayyagari, Syed Ashfaq Ahmed, Shri Venkatakrishnan, Senthil Kumar Thangavel, Jeyakumar G, Madhusudana Rao Nalluri	604
97	Energy Efficiency Optimization in the Electricity Market: A Game-Theoretic Approach to Sustainable Power Systems Dongxiang Jiao, Ru Zhang, Bozhi Zhang	610
98	Internet of Things Enabled Smart Energy Management of Distributed Energy Resources using Self-Adaptive Physics-Informed Neural Network	616

	Optimized with Green Anaconda Optimization Rahul D. Ghongade, J. Sri Arunaa, P. S. Latha Mageshwari, K. Vinoth, M. Shanmugathai, J. Femila Mercy Rani	
99	A Novel Approach to Smart Grid Energy Management using the Osprey Optimization Algorithm Nissisolomon Rudrapogu, N. Hemalatha, Sanjay B Warkad, A. Jayanthi, K. Vinoth, B Jayaram	622
100	Dual-Stage Interleaved On-board Charger for Electric Vehicle using Snow Geese Algorithm A Chandrashekhar, B Mallikarjuna, Thiyagesan M, L. Umasankar, G. Ezhil, Rukmani Devi	628
101	Development of LPPT based High Gain Configurations of Modified SEPIC Converters for Renewable Energy Indhumathi R, Roshan Rubag R S, Nivitha A, Keerthieswar V	634
102	Smart Irrigation Systems: An Overview of Current Trends and Technologies Md. Rawshan Habib, Al-Amin, Abdelrhman Alrashed, Fariha Jahan Mouly, Shuva Dasgupta Avi	642
103	Measuring Pricing Efficiency of Bank Equity by the Convergence of Fundamentals and Price-based ROE Predictions Applying Gradient Boosting Suddhasanta De, Avik Das, Tamoghna Mukherjee, Manisha Dey, Keya Das Ghosh	647
104	Bio-Inspired Tree Seed Algorithm Enhanced Discrete Wavelet Technique for Memory Control Sachin D More, Dayanand Ingle	653
105	Deep Learning-based Battery Health Monitoring and Speed Control Alerts in Electric Vehicles Kalaimathi B, Jayanthi S, Shivasakthi R, Sowtharyaa V, Trishna AK	658
106	An RFID-based Traffic Reward System for Enhancing Urban Traffic Management and Promoting Responsible Driver Behavior Tomas Dandhare, Shailesh Gahane, Deepak Sharma, Pankajkumar Anawade, Prachi Mandade, Vanshika Landge	664
107	Fine-Tuning Strategies for Transformers Tanushri U. Pake, Utkarsha Pachareney	670
108	Design and Implementation of a MPPT Controller-based Bidirectional DC-DC Converter for Electric Vehicles using PUMA Algorithm Subramaniam G, Devayani G, Gokulapriya C, Janani S, Dhanush T, Shashhwath S	676
109	Revolutionizing Alumni Platforms using Scalable AI and Advanced Hybrid Recommendation Algorithms for Personalized Engagement Risman J, Kesavan M, Karuppusamy S, Nithya Jayakumar, Ramya Jayakumar	682
110	A CNN and HBA based Approach for Grape Disease Identification Vishnuvarthan K, Renugadevi R, Santhi S	688
111	Detection of Lung Cancer in Histopathological Images Utilizing Self-Guided Quantum Generative Adversarial Network with Cat Hunting Optimization Law Kumar Singh, Ranjitham. G, Prasanta Kumar Parida, L. Gunganathan, Sridhar. S	693
112	Deep Learning-based Employee Skills Inventory and Attrition Prediction for Human Resource Management Lalitha Suddapally, Ranjith kumar J, Prasanta Kumar Parida, D. Barani, Guna Sankar Doguparthi	700

113	An Analysis on Generative Adversarial Networks Integrated Network Intrusion Detection System Arun Kumar K, Barath C, J. Merlin Mary Jenitha, L. Mary Gladence	707
114	Hands-Free Smart Glass for the Visually Impaired with Real-Time Obstacle Detection and Traffic Light Recognition Bharanitharan Murugaiyan, Bharathkumar Senthilkumar, Jagadesh Ravi, Thilakraj M	715
115	Lung Cancer Detection: A Comparative Approach using Regressor Methods Chetan Puri, Mansi Sharma, KTV Reddy	722
116	Comparative Analysis of ML Algorithms for Forecasting Time Series Stock Returns Bala Karthikeya Singh Bondili, Sai Pavan Bolagani, Rakshith Thatikonda	727
117	Identification of Skin Conditions using Convolutional Neural Networks (CNNs) S. Gayathri, Mohammed Fahim A, Mithun U, Abirami R	733
118	A Novel Augmented Reality Integrated Platform for Real-Time Patient Health Assessment E. Ajitha, S. Umamaheswari, K. Subashree	738
119	Dynamic Color Identification using Computer Vision: OpenCV with Pandas E. Mohanraj, V. Kirubashini, B. Gobika, A. M. Archana	745
120	Dual-Channel Convolutional Neural Network with Attention Pooling and Sand Cat Swarm Optimization for Incremental Land-Cover Classification in Satellite Image Patches N. K Anushkannan, C. Karpagavalli, A. Jagadesan, R. V. Kavya, Geetha. K, S. Rukmani Devi	751
121	Enhanced Ransomware Detection using a Hybrid Quantum-Classical Convolutional Neural Network with Boosted Sooty Tern Optimization Chaithanya B N, Renuka R. Patil	759
122	A Review of Machine Learning Algorithms in Diabetes Management Unnati Gayaki, Subodh Daronde, Abhay Tale, Aditya Barhate	766
123	Simplification Process in Supply Chain Management through Artificial Intelligence Ayushi Sharma, Rakesh Kumar, Deepak Kumar, Purnendu Shekhar Pandey, Shashank Awasthi	772
124	Innovations in Prostate Cancer Gleason Grading: A Comprehensive Review Harsh Sojitra, Pratik Patel	778
125	A Framework for Video based Sign Language Interpretation using Machine Learning and Statistical Methods Swathi D, Susmetha K, Sreeji. S, S. Mangairkarasi	783
126	Evaluating Resizing Techniques for Lumpy Skin Diseased Animal Image using Metrics Geethalaxmi, Sumathi Pawar, Sunil Kumar B L	791
127	Leveraging AI for Dyslexia Detection: Exploring Multimodal Approaches with Machine Learning and Deep Learning G. R. Priyasri, M. Uma Devi	797
128	Early Detection and Prevention of Hypoglycemic Episodes in Diabetics using Random Forest Algorithm Pinnapureddy Manasa, Maragoni Mahendar, K Raghavendar, Satyanarayana Nimmala, Ravikumar Ch, Dokku Durga Bhavani	805

129	A Novel Emotion Recognition System based on Non-Invasive EEG Signals Hulin Jin, Zhiran Jin, Yong-Guk Kim, Kun Li	810
130	Reinforcement Learning for Autonomous Systems Shriya Kulkarni, Dipti Durgesh Patil	816
131	A System to Detect Unconscious Bias using Virtual Patients: Understanding the Concept in Details Mohammad Nasfikur R. Khan, Sean Walker	821
132	DV Emotion Net: A Sub-Study on Emotion Detection Model Performance Across P100, T4, and TPU VM V3-8 Dhiren Dommeti, Siva Ramakrishna Nallapati, Rand Alfaris	826
133	Early Detection of Childhood Malnutrition using Survey Data and Machine Learning Approaches Md. Thoufiq Zumma, Md. Anikur Rahaman, Nuzhat Noor Islam Prova, Tasriful Haque, Julias Caesar Joy Bose, Ravina Akter Youki	833
134	Machine Learning Approaches for Early Diagnosis of Chronic Kidney Disease (CKD) Dyagala Naga Sudha, N. Senthamarai	839
135	AquaSense: Climate-Aware Smart Irrigation System for Water Efficiency B. Baranitharan, J. Jeswin, A. Mohamed Faizaan, A. P. Chandru Babu, R. M. Jaya Priyangaa, V. Sree Charan Reddy	846
136	Integrating Machine Learning and Statistical Models in Enterprise Risk Analysis Vikram Kalvala, Arpita Gupta	852
137	Augmenting Human Decision-Making: Exploring AI-Driven Automation in IT Operations (AIOps) for Enhanced Efficiency and Innovation TukkiSETTY Vasantha Lakshmi Kumar, Tippa Naresh, Chunduru Saran Ganesh, Chekuri Tarun Varma, K. V. Raju, Chindu Hema	862
138	Enhancing Security in Next Generation Networks: A Deep Learning Approach for Intrusion Detection V Saraswathi, R Dayana	870
139	Revolutionizing Road Safety: An Innovative Approach to Pothole Detection and Prevention using XAI and Deep Learning Senbagavalli M, Sheila Mahapatra, Afrah Fathima M. K, Ruchita L	878
140	Innovative Object Detection with YOLOv4 and Adaptive Bounding Boxes Senbagavalli M, Sheila Mahapatra, Sane Jhansi	885
141	Offline Signature Verification: An Extensive Survey of Deep Learning Methods Gaurav Kumar Pandey, Vansh Raj, Ayush Agarwal, Mayank dixit, Sachin Singh chauhan, Sumit Srivastava	892
142	Gesture and Voice Controlled Wheelchair Palomi Gawli, Tejas Desale, Tejas Deshmukh, Sudarshana Dongare, Varun Gaikwad, Swapnil Hajare	899
143	Enabling Smart Cities: AI-Powered Prediction Models for Urban Traffic Optimization G Revathy, M Thangavel, S. Senthilvadivu, M. C. Savithri	904
144	Smart Emergency Management System using Raspberry Pi Pico, GPS and GSM Modules Govinda Rajulu. G, L. Sharmila, D. Venkatesan, E. Soumya, Sargu Chandra prakash, P. Priyanka	909
145	Deep Learning-Driven Uncertainty Estimation for Brain Tissue Segmentation by Integrating Expectation Maximization Algorithms Laxmi Prasad Bhatt, Subarna Shakya	914

146	Artificial Intelligence based Emotion Recognition from Fuzzy EEG Signals: A Comprehensive Review Indraneel K, Trinath Basu Miriyala	921
147	An Artificial Intelligence Approach for Analyzing Students' Academic Performance using Machine Learning Algorithms Ahmet Serdar Turan, Bedirhan Köksoy, Ali Paşaoğlu	927
148	Enhancing Student Performance Prediction using E-Learning through Multimodal Data Integration and Machine Learning Techniques N S Koti Mani Kumar Tirumanadham, Thaiyalnayaki S, Ganesan V	933
149	Building Scalable Airlines Reservation Systems: A Microservices Approach using AI and Deep Learning for Enhanced User Experience Biman Barua, Mohammad Jashim Uddin Mozumder, M. Shamim Kaiser, Imon Barua	941
150	Gradient-Weighted Adaptive Filtering: A Novel Approach for OCT Image Enhancement A. Kaveena Rebecca, N C Brintha	951
151	Speaker Identification using Deep Learning Models for Enhanced Voice Biometrics Akhilesh, Mamatha Balipa, Anmol S Shetty	956
152	Advancing Healthcare Diagnostics with a Hybrid AI Model Benbrik Jihane, Rattal Salma, Ghoumid Kamal, Ar-Reyouchi El Miloud	962
153	A Rule-based Machine Translation Framework for Low-Resource Language Pairs Mamatha Balipa, Anwaya K, Ananya C, M Murugappan	969
154	An Enhanced Optical-Flow based Attendance Tracking System for Campus Environment S Karthik Ram, K Somasundaram, Senthil Kumar Tangavel, M G Venkatesa, N Manjunadh Reddy, Selvanayaki Kolandapalayam	975
155	Enhanced Speech Emotion and Gender Recognition using Hybrid CNN-LSTM Models Priyadharshini S, G. Naveen Sundar, D. Narmadha, Senthil Kumar Thangavel, Adeyemi Abel Ajibesin, Selvanayaki Kolandapalayam Shanmugam	980
156	Enhancing Sign Language Recognition through LSTM Model Helen Josephine V L, Manikandan Rajagopal, Kavitha S, Stuthi Rajendran	986
157	Understanding Sarcasm Detection Through Mechanistic Interpretability Jithendra Katta, Manikanta Allanki, Nikhil Reddy Kodumuru	990
158	Generative Art: A DC-GAN Approach for Visualizing Descriptions S Benil Jeniffer, D Sathya, Yogeshwari R, Sukesh G, Dhivish Kumar S R	996
159	A Case Study of Soil Parameters for Efficient Crop Recommendation using ML and IoT Sagar Balasaheb Shinde, Sharmila Kishor Wagh	1002
160	Evolving Strategies: LLMs as Game Players Alekh Avinash, Kurunandan Jain	1009
161	InsTerNet: Intertwining ResNet50 and TernausNet Architectures for Enhanced Classification of Cardiomegaly Chest X-Ray Images Hima Vijayan V P, M Abdul Rahiman, Lizy Abraham	1015
162	A Secure Defensive Mechanism Against DDoS Attack in MANETs using ML: Classification Algorithms Y. Adilakshmi, Shaik Raziya, Suragani Avinash, Veeranki Sai Chaitanya, Nithish Gopi Siddi	1021
163	Proposed Solution for Currency Classification and Fake Currency Detection using Machine Learning Dnyaneshwari. B. Narale, Anita. M. Pujar, K. R. Pardeshi	1030

164	3D Scene Augmentation for Floor Planning Allam Sai Sravana Kumara Vignesh, Gangadhara Ravi Teja, B Bala Sai Gayathri	1037
165	Enhanced Bayesian Optimized Support Vector Machine (BO-SVM) Classification and Prediction of Heart Disease P. Chairmadurai, P. Kavitha, S. Kamalakkannan	1044
166	Intelligent Multimodal Form Assistance System Puja Cholke, Gita Kolate, Babusha Kolhe, Maitrey Katkar, Rohan Khandare, Om Khandare	1052
167	Real-Time Identification of Medicinal Plants using Deep Learning Techniques Ch. Prathima, Mahanandi Y, Madhugiri Manju Bhargavi, Gontumukkala Sai Teja, Matam Gowripriya, Madiseti Likhith Sai	1061
168	Deep Learning based Driver Drowsiness Detection in Real Time Environment - An Enhanced Approach Ashin Ajay, Naveen Kumar Ashok, Gokul Balajiram, Abinesh Tamizhselvan, Senthil Kumar Thangavel, Somasundaram K	1068
169	AI-Progressions in Automated Facial Paralysis Evaluation: A Comprehensive Survey of Traditional to Deep Learning Approaches S. Kiruthiga, C. Anbuananth, V. Dhilipkumar	1076
170	VisioGuide: An AI for Visually Impaired Shashanka R, Anisha Devi, Lakith Gowda K, Kushal S, Ravi Kumar V	1084
171	Developing A Recommendation System for Medical Expert Searching using Graph Neural Networks Satish Chandra Cherukuri, Pamula Udayaraju, Greeshma Suryadevara, Srinivasarao Tottempudi	1091
172	Hands Free Mouse using Facial Expression for Physically Disabled People Rushabhkumar Jain, Murahari Naga Bhavana, Aditya Kale, Suvan Rastogi, Payel Thakur	1097
173	A Grading Model for Jasmine Flowers using Deep Learning and Quantum Machine Learning Pratiksha Cauvery K P, Thrisha R, Harshitha T, Suman Panigrahi, Senthil Kumar Thangavel, Somasundaram K, C. P. Boopathy	1102
174	CODE-MNET: Coconut Leaf Disease Classification using Deep Learning based MobileNet C. Shanthini, S. Silvia Priscila	1108
175	Machine Learning-based Crop Recommendation System for Sustainable Agriculture Kantheti Chandan Sriharsha, Kotapuri Rahul Joshi, Vummadi Ravi Sankar Reddy, Vadlapudi Kalyan Hanuman Chowdary, Koduru Hajarathaiah, Shaik Rajak	1114
176	Comparison of Lung Cancer Prediction using Deep Learning and Machine Learning with UMAP Technique B. Jyothi, L. Mary Gladence	1120
177	Keyframe Extraction Approaches for Intelligent Video Analysis Sabarivasan N, Senthil Kumar Thangavel	1126
178	Heat Resilience in Ceramic Heaters Longevity Raja M, Sakthi Adhavan K, Sakthiathavan PT, Savitha S	1134
179	A Robust Machine Learning Approach to Heart Disease Detection with Optimized Features Poojitha Kolavasi, Naga Madhavi Latha Kakarla	1140
180	A Music Recommender System to Identify the Emotional State of a Person using Machine Learning Algorithms	1148

	Muruganantham A, C. Malarvizhi, Divya Vahini. S, D. Saranya, A. Uthiramoorthy	
181	Bayesian Network based Sentiment Analysis of Political Statements Nagesh Subbanna, Aaron Xavier S, D. Pooja, Kavinya Mahesh, Krishna Khare	1153
182	Cardiac Vascular Disease Prediction using Stacked Ensemble Algorithm for Type-2 Diabetes Mellitus C. Selvarathi, Manikandan. T, G. Madhu Mitha, Sharmila S, Sengolrajan Thanasingh, P. Pandiaraja	1159
183	Generative Vision Hybrid Model Enhancing Realistic Synthetic Media Creation Through Advanced Image Processing Techniques S. Thangamayan, B. Lavaraju, Rini Adiyattil, Pranav Hrudhya Mujesh, K. Sai Nivedin, Lakshmi Narasimhan	1165
184	Hybrid Deep Learning for International Trading: Integrating LSTM and Transformer Models T. S. Akhila, J. Relin Francis Raj, D. Kani Jesintha, R. Santhana Krishnan, V. Vinoth Kumar, P. Sundaravadivel	1172
185	Personalised Travel Ratings using AI and Enhancing User Experience Through Multi-Dimensional Analytics Poornima S, A. Krishnaveni, J. Relin Francis Raj, R. Divya, G. Vinoth Rajkumar, I. Sakthidevi	1180
186	Hybrid CNN-LSTM Model for Enhanced Weather Forecasting: Leveraging Spatial and Temporal Dependencies N. Vallileka, G. Vinoth Rajkumar, R. Santhana Krishnan, S. Vijay Shankar, J. Relin Francis Raj, M. Saravana Karthikeyan	1188
187	Online Signature Verification using Deep Learning Kancharagunta Kishan Babu, Srikanth Lukka, Palliyana Shabarish, Aviresh Laxman Sai, Bandi Sai Varshini Goud, Ganji Yeshwanth	1196
188	Multi-Modal Graph Neural Networks for Physiological Signal Analysis Heena Arora, Raj Sinha	1202
189	A Deep Learning Model to Predict Information Technology Students Learning Style in Adaptive Learning Systems Delali Kwasi Dake, Esther Gyimah, Godwin Kudjo Bada	1209
190	Image Search Engine with Recognition JMSV Ravi Kumar, Bellaganti Dheeraj, Geddada Gowtham, Dokala Vivek Babu, Bonthu Asha Kiran, M. Srikanth	1217
191	ParamedNetX: A Deep Learning Framework for Pneumonia Classification using Chest X-Rays Maya M. Warriar, Resmi R, Lizy Abraham	1224
192	Scalable Machine Learning Models Achieving Efficiency in Fraud Detection Koushik Balaji Venkatesan, Ganapathy Subramanian Ramachandran, Gokul Ramakrishnan	1230
193	AI-based Surveillance for Exam Integrity: Real-Time Detection of Abnormal Student Behavior Ashlesha S Adhatrao, Mithun B Patil, Sayali G Sanmukh, Akash Shinde, Shubham Musale	1236
194	Emerging Innovations in Deep Learning for Video Deepfake Detection: A Comprehensive Review Kaushani Makwana, Dheeraj Kumar Singh, Shaleen Shukla	1242
195	Adaptive Music Streaming: Combining CNN Facial Analysis with Snowflake based Music Categorization K. Deepa, S. Pradeesh, M. Mathesh, S. Saravanakumar, R D. Jonas Jefferey	1247

196	Detection of Emergency Vehicles in Traffic and Assign Traffic Free Path using Deep Learning Sriharsha Vikruthi, Tejesh Reddy Singasani, V T Ram Pavan Kumar M, P V V S D Nagendrudu, Ch Raghavendra, R. Sahith	1252
197	Development of a Naive Bayes-based Framework for Optimizing Crop Recommendation System and Enhancing Agricultural Yield Prediction P. Swetha, J. Senthilkumar	1262
198	Intermittent Fault Detection and Fault-Tolerant Control Algorithm based on Neural Network in Nonlinear Systems Tingting Fan	1268
199	Power Equipment Fault Image Recognition and Diagnosis based on Convolutional Neural Network Li Xiaoxiong	1274
200	Forecasting Traffic Air Pollution Increases from Urban Transportation using Machine Learning in Metropolitan Cities-A Review Hari Naga Vijaya Bhaskar, V. Valli Mayil	1280
201	Predicting Box Office Success: A Transformer-based Multi-Modal Approach R. Arul Jose, R. Santhana Krishnan, K. Penyameen, J. Relin Francis Raj, V. Vinoth Kumar, M. Priya	1286
202	DeepFakeGuard: Safeguarding Digital Platforms Against Fake Profiles using AI M. Swarna Sudha, S. Manjula, Indira Bharathi, Valarmathi Krishnasamy, K. Vijayalakshmi	1293
203	Advancing Lung Cancer Diagnosis with Machine Learning: Insights and Innovations A. Syed Musthafa, Santhosh C, Saran R, Suthir K	1300
204	Brain Imaging and GRU-CNN Hybrid Framework for Alzheimer's Disease Progression Analysis L. Selvam, R. Dhamotharan, R. Santhana Krishnan, J. Relin Francis Raj, G. Ram Sankar, G. Yamini	1308
205	Hybridization of DNA Computing and Chaotic System for Ensuring the Randomness and Integrity of Image Data Madhav Dhakal, Subarna Shakya	1316
206	Rice Leaf Disease Prediction using MobileNetV2 Sireesha Abotula, Dev Varma Rajasagi, Abhinava Srinivas Kesavapatnam, Praveen Patnaikuni, Shanmukha Dinesh Rambha	1320
207	Tire Wear Assessment using VGG16: A Computer Vision Approach Shanthi K G, Rukmani Devi S, Blesslin Sheeba T, Kalaiselvi A, Purnananda Rao P G, Jaswanth P, Harshal Venkat K	1324
208	Mal Class: A Deep Learning Approach for Automatic Classification of Malware Images Divya. S	1329
209	Dental Disease Detection using Image Classification Agnes Paul Kattukaran, R. Chitra, Ashlin Santhosh, Shekinah Sumam John	1334
210	Deep Learning-based Algorithm for Feature Recognition in the Construction Process of Decorative Materials Geng Nuannuan, Liu Yuedi	1339
211	Hybrid Deep Learning Models for Anomaly Detection in CCTV Video Surveillance M. Humera Khanam, Roopa R	1345
212	Monocular Depth Estimation for UAV Navigation using Segmental Fully Convolutional Prairie Dog Neural Networks	1352

	Indradeep Kumar, A. Elumalai, G. Santha Meena, Jagath Narayana Kamineni, Joshuva Arockia Dhanraj, M. Revathi	
213	Reliable Roadside Assistance and Fast Solutions for Emergency Breakdown States by EF-YOLOv8M Angeljulie. J, Pradish Pranam. S, Yosuva. B, Shuaib Khan. S	1358
214	Enhancing the Compressed Video Quality through a Neural Network Approach Karthick Panneerselvam, K. Rajalakshmi, P. Sornalatha	1368
215	A New Hybrid Assistive Module Towards Text Recognition and Speech Conversion System from Real Time Acquired Images to Visually Impaired Peoples B. Gobika, S. Megha, V. Sivasakthi, K. Tharageswari	1375
216	Multi Class Spectral Discriminative Convolutional Neural Network Towards Hyperspectral Image Classification of Crop Disease on Inclusion of Spectral Spatial Feature Fusion Mechanism Boopathi Raja. A. S, Poovarasam K, Udhayakiran S, Shaik Muhammed Aleem, K. Tharageswari	1380
217	A Comprehensive Survey on Clinical Models for AI-Powered Medical Applications Bhavya N Javagal, Sonal Sharma	1385
218	Deep Learning Models for Acoustic Monitoring of the Himalayan Monal and Other Elusive Bird J. Ebens Nikshya, J. Relin Francis Raj, R. Santhana Krishnan, G. Vinoth Rajkumar, Imran Javeed Settu, S. Kavitha	1392
219	Machine Learning based Enhanced Intrusion Detection for Cybersecurity Chinthalapalli Karthik Reddy, Gurugubelli Keerthi, G Pranay, Arokiaraj Jovith A	1400
220	Enhanced Contextual Comprehension Utilising an Integrated Transformer-BERT Model in a Counselling Chat-Bot Jinu Sophia J, Kavim Manoharan, Kanimozhi A	1409
221	Comparative Analysis of Machine Learning Algorithms for Conversion Predictors of Clinically Isolated Syndrome (CIS) to Multiple Sclerosis (MS) Serena Mendanha, Keerthi Reddy Gudibandi, Koduru Hajarathaiah, Bharat Reddy Gudibandi, Murali Krishna Enduri	1416
222	A Survey on Alzheimer's from 2D MRIs using Deep Learning Model Kunta Suthar, Daxa vekariya	1422
223	End-to-End Personalized Medical Recommendation Framework for Disease Prediction Justin M George, Emmanuel Joy, Suganthi Evangeline	1429
224	Deep Learning based Diagnosis of Gum Infection and Tooth Alignment using Dental X-ray Ramya K, Karthika N, Pon Abarna J, Nidarshanaa D	1434
225	Real-Time Detection of Wrong-Way Vehicles using YOLO and Image Processing Techniques J. Jeya A Celin, J. Jeswin, A. Mohamed Faizaan, A. P. Chandru Babu, M. Arul Anisto	1440
226	Breast Cancer Detection using Histopathological Images Vrishin Gaikwad, Yash Srivastava, M. Kanchana	1445
227	Cluster Head Selection Algorithm using Machine Learning M. S. Nidhya, E. Gurumoorthi, M. Babu, A. C. Charumathi, Mohd Naved, Dr Balajee Maram,	1452

228	A Systematic Review of Supervised Learning and Deep Learning Algorithms for Diabetic Detection Pothumarthi Sridevi, Padmanaban K	1456
229	Hybrid Deep Learning Methods for Enhancing Parkinson's Disease Early Detection S. Vijaya Amala Devi, K. Vijayalakshmi, R. Santhana Krishnan, J. Relin Francis Raj, R. Umesh, N. Soundiraraj	1462
230	ElephantGuardNet: A Comprehensive Solution for Elephant Conservation and Human-Elephant Conflict Reduction S. Naveen, R. Dhamotharan, S. Sahebzathi, R. Santhana Krishnan, V. Vinoth Kumar, P. Sundaravadivel	1470
231	Brinjal Leaf Diseases Detection based on Deep Convolutional Neural Network Anu Priya A, Rajaram K	1478
232	Keyword Error Detection and Correction on Vietnamese Product Data using Symmetric Deletion Algorithm Duc-Hong Pham	1484
233	Evaluating Artificial Neural Networks and Emerging Machine Learning Methods for Engine Performance and Emissions Prediction: A Review Umesh Galat, Rajendra Rewatkar, Chandrakant Kothare	1490
234	Smart Barcode Scanning using X-ray Technology with Computer Vision and Machine Learning Vijayaraj J, Hari Yogith S, Rithikravivarma V, Siddharth S	1495
235	Machine Learning based Prediction of Parkinson's Diseases Arockiya Selvi. S, T. Kamalakannan	1499
236	Deep Learning for Personalized Medicine: A Comprehensive Review Isha A. Mirzapure, Umesh Telrandhe, Mayur R. Dandekar, Yash M. Salve	1503
237	AI-Enhanced Cyber Security Proactive Threat Detection and Response Systems Venkata Sai Swaroop Reddy Nallapareddy, Siva Koteswara Rao Katta	1510
238	Dynamic Crowd Modeling and Anomalous Behavior Prediction using GMM and Time Series Analysis in Real-Time Smart City Environment Kanchana R, F. Mary Harin Fernandez	1515
239	A Hybrid Feature Selection Model for Early Prediction of Metabolic Syndrome A S Sreepadh, P Sheshu, R G Reshiha, T Vinay Kumar, Gurusamy Jeyakumar	1519
240	Application of Artificial Intelligence in Public Management Processes Pedro Garcia-Carrera, Grisi Bernardo, Alfonso Fuentes-Calcino, Wilver Auccahuasi	1525
241	Design of a Corn Type Recognition System using YOLOv3 Architecture Cristian César Sagastizabal-Escobar, Jean Carlos Quispe-Avila, Eliseo Nisias Marin-Navarro, Wilver Auccahuasi	1531
242	Advanced Sentiment and Trend Analysis of Twitter Data using CNN-LSTM and Word2vec B. Ramesh Babu, S. Ramakrishna, Suneel Kumar Duvvuri	1536
243	Enhancing Crop Yield Prediction Through Hybrid CNN Models using Multispectral Plant Leaf Data Rohini. M, S. Santhi	1544
244	Enhancing Milk Yield Forecasting in Dairy Farming using an Interpretable Machine Learning Framework Srinithi. B, Sruthi Nirmala. S. R, Senthil Kumar Thangavel, Somasundaram K, M. Ramasamy	1549

245	Fashion Design Transformation using Text-Guided Diffusion Models Arjun Adityan, Kabeleswar, Karthikeyan Vaiapury, T Palanisamy, Senthil Kumar Tangavel	1558
246	LiDAR-based Elderly Fall Detection System for Indoor Environments using Neural Network Algorithms Puthucode Ganesh Vignesh, Nithin Kumar S, Senthil Kumar T, Jeyakumar G	1564
247	Security Alert Initiative for Violence Undertaking – A Violence Detection System in College Environment S Shreenithi, K Srinidhi, G Jeyakumar, T Senthilkumar, S Vasan, Md. Ashraful Babu	1569
248	EEG-based Emotion Recognition using Morlet Dual-Level Wavelet Contextual Neural Network with Snow Geese Algorithm M. Sivaramkrishnan, M. Siva Ramkumar, Mathi Kannaiyan, Mohammad Kanan, Rahmath Ulla Baig, Jayant Giri	1578
249	Enhanced Wastewater Treatment Plant Feature Prediction using Edge Attention Network with Parrot Optimization M. Sivaramkrishnan, M. Siva Ramkumar, Arun M, Mohammad Kanan, S. Shankar, Jayant Giri	1585
250	Sustainable Crop Yield Forecasting with the Dual-Branch Geometric Progressive Feedback Cosine Convolutional Network Model M. Siva Ramkumar, Nivetha R, Gokul Gopan, Mohammad Kanan, Rahmath Ulla Baig, Jayant Giri	1592
251	Framework for Drug User Analysis and Prediction Dhanush Sethuraman, Ela Ananya, Joseph Jeffrey J, Senthil Kumar Thangavel, P Rangasami, Somasundaram K	1599
252	Enhancing Speech Emotion Recognition through Integrated Audio-Video Analysis Vignesh E, Srivatsan S, G. Brindha	1607
253	Early-Stage Detection of Colorectal Cancer using Image Classification Ashlin Santhosh, Anusha Bamini A M, Rajeswari M, Brindha D, Chitra R, Stewart Kirubakaran S	1613
254	Predicting Loan Risk in Banking Sectors using Machine Learning Akalya S, Veronica J, J. Merlin Mary Jenitha, L. Mary Gladence, T. G. Ruby Angel	1619
255	Revolutionising Chrono Nutrition using AI: A Review for Personalized Dietary Recommendation Vidhi Wankhede, Meher Langote, Prateek Verma	1625
256	A Performance Analysis of Supervised Machine Learning Models for Thyroid Disease Detection Sanskriti Gaurkhede, Rushikesh Burle, Chetan Puri	1631
257	Detection and Classification of Pneumonia, Covid-19 and Tuberculosis using Deep Learning Methods Sanskriti Gaurkhede, Sanika Shendre, Sakshi Izankar, Rushikesh Burle, Amit Gudadhe	1637
258	AI-Driven Detection of Gastrointestinal Disease based on Advanced Deep Learning Techniques Sakshi V. Izankar, Chetan Puri, Rushikesh Burle	1644
259	Real-Time Gesture Analysis for Evaluating Student Performance and Engagement Himanshu Waghmare, Mansi Sharma, Falguni Suryawanshi	1650
260	Early Detection of Chronic Diseases using Machine and Deep Learning Algorithms Bhushan Fulkar, Trishul Dhale, Utkarsha Pacharaney, Shruti Deshmukh	1656

261	Leveraging Patient Flow Data to Reduce Hospital Readmissions: A Study using Medical Dashboards Santoshi Deshmukh, Utkarsha Pacharaney	1662
262	Harvest Helper: AI-Driven Crop Selection Model Himanshu S Bardhiya, Mutyala Pavitra, Ashutosh Bagde, Vansh A Bardhiya	1666
263	Retinal Disease Classification: Binary and Multiclass Perspectives Rutuja Nitin Lanjewar, Utkarsha Pacharaney	1672
264	Bitcoin Price Prediction using Deep Learning Models Rasika Hajare, Chetan Puri, Pradnyawant M. Gote	1678
265	Biomedical Imaging in Chest Radiography for Enhancing Physiotherapy Assessment and Treatment Rohan P. Nandanwar, Amit Gudadhe	1684
266	ML for Sustainable Solutions: Applications in Renewable Energy Optimization and Climate Change Prediction Arya Awachat, Ananya Dube, Shivnath Chaudhri	1689
267	The Role of AI and Machine Learning in Cancer Diagnosis and Treatment Tejas Gawande, Prateek Verma	1695
268	Deep Learning Techniques for Enhancing Image Recognition in Healthcare Ayush Pravin Gadkari, Swapnil Gundewar, Manasvi Kishorao Diagavhane, Prajyot Raju Yesankar, Sakshi Prakash Anpan, Anushka Atul Arghode	1701
269	A Review on the Applications of Machine Learning and Deep Learning Algorithms for Image Recognition Ketan Wanjari, Prateek Verma	1707
270	Cataract Detection and Classification using YOLOv9 and Machine Learning Falguni Suryawanshi, KTV Reddy	1712
271	A Review on the Applications of Machine Learning and Deep Learning Techniques for Skin Cancer Detection Ketan Wanjari, Prateek Verma	1718
272	Application of AI and ML in Wound Healing and Skin Regeneration Taniya G. Petkar, Praveen Kumar, Kirtiksha U. Sarate	1724
273	Advancements in AI-Driven Cephalometric Analysis for Orthodontic Applications: A Review on Automated Landmark Detection and Angle Assessment Viraj Vijay Gurbade, Utkarsha Pacharaaney, Chetan Puri	1731
274	Enhancing Pneumonia Treatment in Children by Machine Learning Techniques Ashwini Gajbhiye, Swapnil Gundewar, Prateek Verma	1737
275	A Deep Learning based System to Predict the Plant Disease using Streamlit Mohan K. Warbhe, Joy Jordan Bore, Shiv nath chaudari	1744
276	Evolution of Wearable Healthcare Technology: Opportunities, Challenges and Applications Rohit Bokde, Pragati Dongare	1752
277	Cocoscan: AI-Powered Precision Diagnostics for Coconut Leaf Disease S. Santhi, M. Murugan, Nandhiha V, Vivitha S, Karthikeyan D	1756
278	Unraveling Pulmonary Fibrosis Deep Learning Transfer Learning for Diagnosis Rekha G, Pongiannan R K, Venkata Sreeram Pachipulusu, Sai Balaji Mogili, Brindha R, Telugu Maddileti	1764

279	CNN-LSTM based Approach for Detection of Early Violence in Campus Environment Yarlagadda V S Sri Likhitha, Tallapaneni Bala Bhargavi, Sai Sri Nihal Velamuri, Komatireddy Adithya Reddy, Senthil Kumar Thangavel, Vasan Sowriraja	1770
280	Real-Time Prediction of Medicinal Herb Plants using Deep Learning Sumathy R, Jehitha Shalom R, Ragul G, Nickson Antony A	1777
281	An Automated Methodology for Detecting Cercospora Infestations in Eggplant using YOLOv10n S. Deepan, M. Revathy	1781