

2024 3rd Edition of IEEE Delhi Section Flagship Conference (DELCON 2024)

**New Delhi, India
21-23 November 2024**

Pages 1-741



**IEEE Catalog Number: CFP24BK1-POD
ISBN: 979-8-3315-1860-8**

**Copyright © 2024 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:	CFP24BK1-POD
ISBN (Print-On-Demand):	979-8-3315-1860-8
ISBN (Online):	979-8-3315-1859-2

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

TABLE OF CONTENTS

Enhanced Human Detection in Disaster Zones Using UAVs and Deep Learning Algorithms	1
<i>Farjana Farvin Sahapudeen, T. Vigneswari, N. Kalaiselvi, J. Ganesh, K. Karthika, G. Kalaiselvi</i>	
Precision Care Navigator: Predictive Analytics for Patient-Centered Healthcare (PCN-Patch).....	7
<i>T. Vigneswari, S. Pramila, Farjana Farvin Sahapudeen, C. Vanaja, N. Thilagavathi, G. Kalaiselvi</i>	
Revolutionizing Customer Service: An AI-Powered Chatbot Approach Using Advanced NLP Techniques.....	12
<i>Parul Sood, Himanshu Tanwar, Jaideep Singh, Ayush Kumar Ruhela, Nikhil Gupta, Ritesh Kumar</i>	
Unpacking the Intricacies of Techno-Pedagogical Competency, Social Competency and Interpersonal Relationships in HEI's Professors: A Qualitative Meta-Synthesis	17
<i>Pawak Agrawal, Pragya Singh, Laxmi Mishra, Tanuja Bhatt, Anil Kumar Panda, Om Pal Singh</i>	
An Integrated CNN-Bidirectional LSTM Model to Detect Electricity Theft Users in Smart Grids.....	21
<i>O Jeba Singh, R Rajesh Sharma</i>	
Raspberry Pi Integrated CNN Method to Find the Skin Lesions from Photo Images	27
<i>O Jeba Singh, D Lavanya, Sheila Mahapatra, R Rajesh Sharma, Akey Sungheetha, R Niranjana</i>	
High-Performance Concurrency Control in Multi-User Database Systems: Analysis and Optimization Strategies	32
<i>Neha, Banita</i>	
Analysing the Stage - Parkinson Disease with “Abhita” Rating Scale.....	37
<i>Banita, Sarika Zaware</i>	
Combating Terrorism: Detecting and Analyzing Extremist Content on X (Formerly Twitter).....	42
<i>Gideon Mwendwa, Lokesh Chouhan, Felix Etyang, Ngaira Mandela, Uwineza Gift</i>	
Age and Gender Classification Using Convolution Neural Network	49
<i>Thonduru Anjum Javeriya, Sumit Kumar Banshal, Gnanaprakasam Thangavel, Raka Moni</i>	
Malicious Social Bot Detection: RL-RNN Based Hybrid Approach.....	54
<i>Palagiri Swathi, Mousumi Karmakar, Sumit Kumar Banshal, Raka Moni</i>	
Challenges of IoT Adoption in Developing Countries: A Case Study of Ethiopia	59
<i>Wasyhun Abdela Ajebo, Dahlak Daniel Solomon, Sonia</i>	
Human-Centered AI for Autonomous Vehicles: A Review of Interaction Strategies and Technologies.....	67
<i>Abhishek Kumar, Kritika Rana, Rishaan Gupta, Deenika Gunta, Ankur Mahida, Sonia</i>	
Maximizing Diagnostic Efficiency: Ensemble Deep Learning Approaches in Cancer Detection.....	73
<i>Abdulahi Mahammed Adem, Ravi Kant, Sonia, Damini Dadwal, Hemraj, Pankaj Jain</i>	

Biological Evaluation and Physiochemical Estimation of Topical Drug Delivery System Using Machine Learning Comprising Curcumin and Alpha-Tocopherol	80
<i>Rahul Sharma, Abhineet Chauhan, Muntather Muhsin Hassan</i>	
Artificial Intelligence Techniques for Recognizing Pharmaceutical Significance of Schiff Bases and Their Metal Complexes	88
<i>Charu Khanna, Hemendra Gautam, Kuldeep Chauhan, Krishna Pal Singh Chauhan, Laith H. Alzubaidi</i>	
Real-Time Disaster Response with LoRa: A Multi-Sensor Approach	92
<i>Shubhi Agrawal, Dhruv Gupta, Vansh Sudan, Pratham Goel, Vaibhav Nijhawan</i>	
Analyzing Pricing Strategies in E-Commerce: A Case Study of Amazon Product Reviews	98
<i>Deepali Mayur Gala, Bhaskar Vijayrao Patil, Bhakti Pawar, Priyanka Chadha, Susanta Kumar Nayak</i>	
Power and Area Optimized Memristor-Based Majority Identifier for Digital Applications.....	102
<i>P. Michael Preetam Raj, Sravan K. Vittapu, P. Chinnasamy, Manu Gupta, K. Samatha, K. Sasivijaya</i>	
The Hidden Network Penetrator Based on Port and Vulnerability Scan Testing Technique	108
<i>Rudra Choudhri, Bhaskar Kataria, Harsha Ratnani, Sakshi Jha, Paridhi Gupta</i>	
A Comprehensive Review of Routing in Fog Computing Using SDN.....	113
<i>Pooja Thakur, Krishan Tuli</i>	
Exploring Machine Learning Techniques for Effective Anomaly Detection: A Comprehensive Review.....	117
<i>Abisheka S, D. Nethra Pingala Suthishni, D. Shanmugapriya</i>	
Actionable Intelligence for Sales Call Recordings	123
<i>Palanati Neha, Gudditi Chetan, Srinaini Garimella, Malla Sreejagadeesh, Beebi Naseeba</i>	
Hierarchical Deep Learning Model for Skin Cancer Detection and Skin Disease Diagnosis	128
<i>Muskan, Venkateshwari P, Chandra Mohan D</i>	
Internet of Medical Things: A Revolution in Healthcare for Enhancing Cardiac Monitoring and Patient-Care Through Wearables	134
<i>Amit Chakraborty Chhoton, Arvind K. Sharma</i>	
Anti-Theft Alert System for Home Security	139
<i>A. S. Anishvishwa Sathiyamoorthi, S. Rahul Senthil, Sudha Vittaldass, Raja Raman</i>	
NAAC Accreditation of HEIs in India: An Agile-Scrum Project Management Approach	144
<i>Suresh D. Mane, Shivaleela Arlimatti, Ganesh Rathod</i>	
Analysis of Use of AI in Early Childhood and Elderly People Education	151
<i>Sandhya Avasthi, Tanushree Sanwal, Sapna Yadav, Meenakshi Tyagi, Puja Sareen, Ankita Sharma</i>	
Masstige Marketing Unveiling Future Research Agenda Through Literature and Thematic Lens: A Review.....	158
<i>Aditi Talwar, Priya Vij</i>	
Classification of Seashells Using Deep Learning Models.....	166
<i>Bipin Nair B. J., Shalwin A. S., Raju S.</i>	

Multilingual Approaches to Named Entity Recognition.....	172
<i>Padmaja Savaram, Suhana Tabassum, Sasidhar Bandu, Lakshitha B</i>	
A Hybrid Approach for Skin Cancer Detection and Classification Using DenseNet121	178
<i>Rakesh Kumar Yadav, Gobi N., Khushmeen Kaur Brar, Surendra Yadav, Myasar Mundher Adnan, Sanjeev Kumar Joshi</i>	
A Deep Investigation on Blockchain Architecture and Its Frameworks.....	182
<i>Neha Sharma, Naveen Kumar, Rajesh Kumar Kaushal</i>	
Sustainable E-Commerce Through Customer Emotion Recognition with Machine Learning	187
<i>Sumita Mukherjee, Kavita Thapliyal, Mohit Manchanda, Shivam Jha, Zeeshan</i>	
The Colossal Defense: Security Challenges of Large Language Models	194
<i>Sourav Maity, Jatin Arora</i>	
ChromEnhance-X: A Multi-Modal Deep Learning Framework for Chromosome Image Enhancement	199
<i>Dinu A. G., Biju V. G., Vinod B. R., Nonam Chellapan, Smitha G. Raj</i>	
A Custom CNN Model for Tomato Leaf Disease Detection	206
<i>Ahmad Ahmad Garba, Vishal Jain, Kanika Singla</i>	
Comprehensive Hausa Language Processing Models for Text Summarization, Sentiment Analysis, Machine Translation, and Question Answering.....	210
<i>Kabiru Uba Kiru, Surya Kant Pal, Khalil Haruna Aminu, Rita Roy</i>	
Predicting Mental Health Stress Levels Through Sleep Patterns Using Ensemble Models and Explainable AI.....	217
<i>Shouryya Veer Monga, Ritik Kumar Chaudhary, Deepika Kumar, Jahanavi, Vani Jain</i>	
Blockchain-Enabled Immunization Records for Secure Pediatric Healthcare	224
<i>Shikha Jain, Navneet Kaur, Manisha Malhotra</i>	
Empowering Decision Making in Healthcare - A Comparative Analysis of eXplainable AI Techniques Using SHAP and LIME for Cancer Patients Data.....	229
<i>Shaesta Mujawar, Mariyam Sayed, Anita Chaware</i>	
Forest Flame Detection Using Yolo V8 - A Deep Learning Approach	234
<i>Kosaraju Chaitanya, Syed Reshma, Ghanta Satwika, Chilaka Dharani, Turlapati Alekhya</i>	
Detection of Deviations from Lambda-CDM in Dark Matter Power Spectrum Using Cosmology Informed Neural Networks.....	239
<i>Abinеш Mathivanan, Nitthin Kumar, Praveen Kumar, Arun Nivesh, Sakshi Gupta, Garima Thakur</i>	
Emerging Global Trends in Crop Management Using Computer Vision Techniques Research: A Scientometric Analysis of SCOPUS Journals.....	244
<i>Amit Verma, Preetish Kakkar</i>	
Video Compression by Spatial and Temporal Dimension Reduction Using Seam Carving Algorithm.....	249
<i>Kalash Rastogi, Atisri, Vikas Tripathi</i>	
Sentiment Analysis in Code-Mixed Telugu-English Text (CMTET) Using Deep Learning Techniques.....	253
<i>N. Sai Suraj, Anil Kumar Manda, Vinay Raj</i>	

A Systematic Literature Review of Blockchain-Assisted UAV Communication Systems	260
<i>Vinod Kumar, Amit Asthana, Gaurav Tripathi</i>	
Exploring Deep Learning Methods for Text Augmentation to Handle Imbalanced Datasets in Natural Language Processing	269
<i>Reeba Khan, Anoushka Venugopal</i>	
Automated Brain Tumor Detection Using Enhanced ResNet-50 Deep Learning Model	277
<i>Hariprasad N., Annal Priyanga M., Duraimurugan S., Gomathi U., Samyuktha B.</i>	
Revolutionizing Breast Cancer Detection Using Thermal Imaging with Deep Learning Analysis	282
<i>Sivakumar Rajendran</i>	
Big Data Analytics-Based Diabetes Prediction Model for Identifying Internal Factors for Diabetes Mellitus.....	286
<i>C. Mallika, J. Vanitha, K. Kalaivani, S. Selvamuthukumar</i>	
FinTech Knowledge Architecture Model for Reskilling and Talent Development in Mauritius	292
<i>Marie Belinda Carlise Poussin Deojee, Diroubinee Mauree-Narrainen</i>	
Leveraging XAI for Discovering Crucial Demographic, Clinical and Pathological Diabetes Mellitus Biomarkers	296
<i>Rupali Ahuja, Gaurav Indra</i>	
Analyzing Stock Market Dynamics: A Game-Theoretic Perspective	302
<i>Sangeeta, Shruti Mittal, C. K. Nagpal</i>	
A Detailed Analysis of Entropy, Similarity and Distance in q-ROFS for MCDM Applications	308
<i>Gitesh Suri, Palvinder Thakur, Neeraj Gandotra, Namita Saini</i>	
Enhancing Digital Image Security Using Visual Cryptography Integrated with AES and RSA Encryption Techniques	314
<i>Prajna Aasritha Adabala, Rajani Sai Venkata Gowtham, Thambi Jaishitha, Vadluri Sai Rishisri, Kavitha C. R.</i>	
Feature Extraction Techniques and Their Role in Alzheimer's Disease Diagnosis: A Comprehensive Review.....	319
<i>Preeti Rai, Ambooj, Sania Kukkar</i>	
Study of Generating 4D and 5D Coexisting Hyper Chaotic Autonomous Systems for Application in Cryptography.....	325
<i>R. Prabu, P. Dhinakar, S. Prakash, N. Gayathri</i>	
AES-Driven Image Encryption: Overcoming Security and Transmission Challenges.....	330
<i>Harshil Bodat, Harshil Patel, Monika Arora, Dhruvi Ambekar, Sonu Bodat, Sonia</i>	
Alphanumeric Encryption: The 6x6 Structure of Playfair Cipher	335
<i>Krrish Khandelwal, Cyrus Mehra, Arvind K. Sharam, Savita Wadhawan</i>	
A Comparative Case Study on Augmented Reality and AI Chatbots	342
<i>Neha Garg, Amanpreet Kaur, Rubina Dutta</i>	
Immersive Learning: Evaluating the Effectiveness of AI Chatbots and AR in Education.....	347
<i>Neha Garg, Amanpreet Kaur, Rubina Dutta</i>	
An In-Depth Analysis of Network Security: Intrusion Detection and Prevention Systems.....	354
<i>Amritpal Kaur, Rajesh Kumar Tyagi, Shweta Sinha, Prashant Vats</i>	

A Novel Encrypted Data Hiding and Image Encryption for Authentication Based Communication Framework.....	358
<i>Balasubramanian K., Kannan N., T. Ganesan</i>	
Fraud Detection in Financial Transactions Using Machine Learning - A Comparative Study	363
<i>Avati Jayanthkumar, Mayakuntla Sai Sathwik, Shagam Srinivasa Reddy, Donadula Mounish Kumar, Chougule Saish Samir, Jagdish Chandra Patni, Nilesh Bahadure, Rohit Kumar</i>	
Credit Card Fraud Detection Using Machine Learning- A Comprehensive Review	367
<i>T. Venkata Jaswant, G. Sai Manoj, V. Vamsidhar, A. Aravind, S. Vasudeva Reddy, Jagdish Chandra Patni, Nilesh Bahadure, Rohit Kumar</i>	
Enhancing Team Sports Strategy and Performance Using Machine Learning: A Case Study on Soccer.....	371
<i>K. Venkata Narayana, Nalli Vinaya Kumari, G. S. Pradeep Ghantasala, Rajesh Sharma R, U. Ananthanagu, Deepika Gupta</i>	
Addressing Challenges and Opportunities in Precision Medicine Using Deep Learning and Personalized Cancer Treatment	375
<i>G S Pradeep Ghantasala, Nalli Vinaya Kumari, R Rajesh Sharma, Pellakuri Vidyullatha, Akey Sungheetha, Saliha Bathool</i>	
Online Payment Fraud Transaction Detection Using Machine Learning	380
<i>Sakshi Deo, Mohammad Adnan, Manjay Raj, Ali Imam Abidi, Nidhi Bansal</i>	
Advancements in Pythagorean Fuzzy Sets for Multi-Criteria Decision Making: A Review from 2016 to 2023	386
<i>Sahil Kashyap, Neeraj Gandotra, Namita Saini, Sonia</i>	
Linear Regression Modeling to Predict the Lifespan of Final Drive Components in Heavy Equipment	392
<i>Anggi Febrianto, Mokh. Suef, Muhammad Saiful Hakim</i>	
Exploring Student Perspectives on ChatGPT in Higher Education.....	396
<i>Shard, Pankaj Vaidya, Sapna Koul, Ankur Arora, Sonia, Pankaj Jain</i>	
Fuzzy and Cluster Based Energy-Efficient Zonal Stable Routing Protocol for WSN-IoT Network	402
<i>Bishwajeet Kumar, A. Ranjith Kumar, Rajan Kumar</i>	
Optimizing HCV Diagnosis and Hospital Resource Management Using Machine Learning Techniques.....	408
<i>Shilpi Bisht, Neeraj Bisht, Bishwajeet Pandey, Vedant Patil, Sonalika Srivastava, Anshul Srivastava</i>	
Impact of Artificial Intelligence in Detection of Patent Requirements for Specific Vaccines During the Pandemic: A Study.....	413
<i>Richika, Ruchika Sharma, Nandan Sharma</i>	
The Influence of Human Factors in Ensuring Cybersecurity in Organizations: Effectiveness of PDPA and GDPR Implementation.....	419
<i>Ahmad Zia Sharifi, Md. Abul Ala Walid, Mohammad Dawood Momand, Ihsan Ul Haq Safi, Hamidullah Khanzai Safi, Sadia Hossain</i>	
IoT-Driven Environmental Surveillance to Foster Sustainable Development	425
<i>Vishakha Agarwal, Surabhi Purwar, Shilpy Agrawal</i>	

A Secure File Encapsulation System for File Sharing in the Absence of a Trusted Channel	431
<i>Palak Chopra, Makarand G. Kulkarni</i>	
SSDP DDoS Attacks Detection Using Naïve Bayes Classifiers with Wrapper Feature Selection Methods	435
<i>Manu Sharanya Bhadriraju, Kishorebabu Dasari</i>	
Design and Simulation of Permanent Magnet Synchronous Motor for E-Vehicle Application.....	440
<i>Rekha A Chaudhari, Murali Matcha, Vinod Kumar Vishwakarma, Pranjal Amit Jog, Ekta Mishra, Ganesh H Patil</i>	
Blockchain-Enabled IoT: Revolutionizing Security and Data Integrity in Connected Devices	448
<i>Rahul Verma, Shaksham Thakur, Pankaj Vaidya, Brij Bhushan Sharma</i>	
FPGA-Based RISC Processor with Pseudo Open Drain for Power Optimization.....	453
<i>Kiran Sharma, Keshav Kumar, Arnika Patel, Rocky Kumar, Arpita Meet Vaidya, Suraj Singh</i>	
A Review of Current Technologies for Vehicle Tracking and Toll Enforcement.....	458
<i>Shaksham Thakur, Rahul Verma, Pankaj Vaidya, Brij Bhushan Sharma</i>	
Sankalp: Development of a Smart Scholarship Portal for Students.....	463
<i>Rupali Ramdas Shevale, Rutuja Sharadchandra Ahire, Pratik Milind Joshi, Umesh Randhir Patil, Sohan Bharat Rajkule</i>	
Low-Power Optimized UART Implementation on FPGA Device.....	468
<i>Arpita Meet Vaidya, Pushpanjali Pandey, Arnika Patel, Rocky Kumar, Rashmi Pandey, Suraj Singh</i>	
Implementation of PSO-Optimized PI Control Algorithm for SMES Based DVR in Power Quality Mitigation	472
<i>Jeba Singh O, D. Godwin Immanuel, Sheila Mahapatra, Rajesh Sharma R, Akey Sungheetha, G. S. Pradeep Ghantasala</i>	
Development of a Recommendation System for Resume Tracking and Job Suggestions	478
<i>Deepanshi Gupta, Preetvanti Singh</i>	
A Novel Sharding Protocol for Blockchain Scalability Using Random Function Assignment	484
<i>Rajesh Sharma R, Ellappan V, Akey Sungheetha, Vetrivendan L, Sheila Mahapatra, Sivakumar C</i>	
Detection and Classification of Diabetic Foot Ulcers Via Cloud-Based Deep Learning Approach	489
<i>N. Sengottaiyan, Malathi Eswaran, Akey Sungheetha, R. Rajesh Sharma, A. L. Pravin, G. S. Pradeep Ghantasala</i>	
Sustainable Software Engineering: Integrating Environmental Considerations in Software Development	495
<i>Divyanshu Tiwari, Ashu Gautam, Sourabh Kumar, Neda Fatima</i>	
Frame Detection in Healthcare Using Voice-Activated Signal: Issues and Future Uses	500
<i>Parshotam Pal, Shilpa Sharma</i>	
A Narrative Review of Developments in Knowledge Tracing in Last Decade.....	506
<i>Ankush Jain, Neeru Mago</i>	
Design of Fully Automated Low-Cost Hydroponic System with Arduino Uno and NI LabVIEW.....	513
<i>B. Lakshmi Prasanna, Ravi Boda, M. Pala Prasad Reddy</i>	

Development of a Bluetooth-Assisted Voice Control Car	519
<i>Harshil Aron, Meenakshi Gupta</i>	
Social Media Penetration and Its Age-Dependent Implications in India	524
<i>Sakshi Mehta, Rattan Pal Singh Rana, Shimali</i>	
CampusConnect: Implementing a Centralized College Application System Using Web Technologies and XAMPP	530
<i>Arul Gupta, Ishita Dham, Prajjwal Khandelwal, Vangmayee</i>	
Path Planning Algorithm for UAV Based Water Quality Monitoring	535
<i>Mercy Amrita C., Balasubramanian K., Ramsundar, Jeyaraman S.</i>	
Intelligent Street Light Management System Using Solar Panels	540
<i>Akila Venkatraman, Arutla Ruchitha, Suseela Sellamuthu, Dappu Shalini, Pulsani Dinesh Reddy</i>	
Honeypot Comparison of Attack Detection and Mitigation of SSH Attack	546
<i>Wasif Ali, Aithasham Sajid, Tanvi Ajit Ghodke, Rida Malik, Neeru Malik, Keshav Kaushik</i>	
Integrating Electric Vehicles into Smart Grids: Exploring Bidirectional Charging and V2G Technologies.....	551
<i>Aditya Maloo, Srividya R, Ancy Princia Aranha, Ciji Pearl Kurian</i>	
GAN-Powered Predictive Analytics for the Detection and Diagnosis of Tuberculosis	558
<i>Neda Fatima, Shobhit Kapoor, Shiva</i>	
Regenerative Braking Systems in Electric Vehicles (EVs): A Review	565
<i>Ndonwi Ayoonwi Ambe, Vivek Sharma, Kapil Sethi, Mohammed Hussein Fallah</i>	
Establishing a Secure Mobile Online Banking System Using AES.....	570
<i>R. C. Karpagalakshmi, J. Lenin, Robin Rohit V., K. Saravanan, Rajesh Sharma R., Sumit Kumar Banshal</i>	
A Deep Learning Based Approach for Sugarcane Disease Detection	575
<i>Vishan Kumar Gupta, Garima Sharma, Vidisha, Mukesh Kumar Singh</i>	
Stuxnet Unveiled: The Blueprint for Modern Cyber Conflict	581
<i>Preeti Rai, Vishal Nain</i>	
Alpha-X Framework for Assessing Network Robustness in Nakagami-M Fading and Co-Channel Interference Environments	585
<i>Deepak Upadhyay, Karan Siwach, Shiv Ashish Dhondiyal, Abhay Upadhyay, Mridul Gupta, Kunj Bihari Sharma</i>	
Design and Analysis of Rectangular Patch Antenna with Varied Slot Configurations for Ka Band Applications.....	590
<i>Dishita, Anushri Poonia, Vaishali Kikan, Ashwni Kumar</i>	
High-Performance 60 GHz Microstrip Patch Antenna with Innovative Parasitic Structures and Slot Configurations	595
<i>Himanshi Verma, Bhawna, Kusum Kumari, Vaishali Kikan, Ashwni Kumar</i>	
Smart Level Notifier for Vending Machines.....	601
<i>Lokesh S, Bhavya S, Hemavathi S, Kavitha Balamurugan</i>	

Single-Band Optimized Rectangular Patch Antenna with Slots for V-Band Applications	606
<i>Yashika, Vaishali Kikan, Ashwni Kumar</i>	
Comparative Analysis of Deep Learning Techniques for Fake News Detection.....	612
<i>Sowmya H. K., Anandhi R. J.</i>	
Optimization of Harmonic Generation in Frequency Multiplying Circuit for Wireless Application.....	617
<i>Anil M Kasture, Kailash J Karande, Shankar D Nawale</i>	
A Comparative Review of Spectral Features in Speech- Based Emotion Recognition Techniques	622
<i>Ritika, Sonal Chawla</i>	
Predicting Potential Targets of Hyoscyamus Niger Using Network Pharmacology and Molecular Docking for Rheumatoid Arthritis.....	629
<i>Charu Jain, Pranit Nijhawan, Seneha Santoshi, Hina Bansal</i>	
Designing and Analysis of Leakage Compensated FC OP-AMP BASED Voltage Reference Designs	636
<i>Anushree, Rupali Singh, Jasdeep Kaur</i>	
Compressive Sensing Based Image Compression-Encryption Scheme Using Triangular Series and Novel Chaotic Map.....	643
<i>Kolagani Yeshwanth Sai, K Ashwini, Vadde Karthik</i>	
Reversible Logic Circuit Based Cryptographic Model for Text Message	648
<i>Jyotishmoi Handique, Shiddhant Das, Nipanko Nath Mazumder, Mousum Handique</i>	
A Comprehensive IoT Security Framework Empowered by Machine Learning.....	655
<i>Pavithra H C, Rajeshwari J</i>	
Review on Enhancing Predictive Accuracy in Alzheimer Detection: A Hybrid Approach.....	663
<i>Ambooj, Ihtiram Raza Khan, Parul Agarwal, Harleen Kaur</i>	
Comparing Fine Tuned-LMs for Detecting LLM-Generated Text	669
<i>Sanidhya Madhav Shukla, Chandni Magoo, Puneet Garg</i>	
Detection of Cybercriminal Activities in Smartphones Via NLP-Based Communication Pattern Analysis.....	677
<i>K Swetha, Sivaraman K</i>	
Evaluating the Impact of Consensus Mechanisms on Blockchain-Based Data Security: A Systematic Review	682
<i>Shubham Narwal, Basant, Ishant, Neda Fatima</i>	
Ensemble-Based Transfer Learning for Enhanced Ransomware Detection Using PE Header.....	687
<i>Richa Sharma, Mohona Ghosh, Ankita Singh</i>	
Development of a Multi-Sensor Hardware System for Smart Farming Application	693
<i>Abhishek Tomar, Shivani Bhardwaj, Rishaan Gupta, Mukesh Tiwari, Shakir Khan, Sonia</i>	
Synergistic Brain Tumor Detection: Anisotropic Diffusion, with SVM.....	699
<i>J Alphonsa, V. Sheeja Kumari, K Roslin Dayana</i>	
Overview of Optical Sensors for Tracing Various Biological Virus and Bacteria Used in Bio-War	704
<i>Yn Nirmala, Maligi Anantha Sunil</i>	

Blockchain-Nanotechnology Integration: Securing the Future Through Enhanced Credibility and Security.....	709
<i>Lovkesh Singh Vermani, Blessy Thankachan, Anooja A., Preeti Purohit, Abhijeet Kumar, Garima Jolly</i>	
Harnessing Deep Learning: Innovations and Practical Applications.....	715
<i>Megha Kapalia, Amapreet Kaur, Neha Sharma</i>	
Investigating the Effect of Blockchain Technology on Social Sustainability and CSR in Developing and Developed Countries	721
<i>Sumit Sharma, Akhilesh Ranaut</i>	
Artificial Intelligence in Environmental Conservation: Predictive Analytics for Pollution Control	728
<i>Prerna Sharma, Avnish Chauhan, Monu Bhardwaj, Utkarsh Verma, Prabhat Sharma</i>	
Spring-Based Weight Determination System for Railway Wagons by Leveraging Suspension Compression.....	733
<i>Mannat Singh, Chirag Garg, Avi Kapoor, Aryan Chaudhary, Aditi Jalali, Kanishk Chhabra, Mahender Singh</i>	
CNN for Detecting Weed in Soybean Agriculture.....	742
<i>Goransh R. Thareja, Reema Thareja, Shefali Gupta</i>	
A Review on Outlier Detection Model in Blockchain Technology	748
<i>Madhuri Agrawal, Puja S. Prasad, Neha Nandal</i>	
Proposed Framework for Detecting Multilingual Hate Speech on Social Media Platform	752
<i>Rachna Narula, Poonam Chaudhary</i>	
A Review on Fungal Diseases Detection in Apple Plant Using Machine Learning	756
<i>Shivani Gupta, Pooja Rani</i>	
Empirical Analysis of Machine Learning Classifiers for Architectural Smells Using Critic-Topsis Approach	761
<i>Stuti Tandon, Vijay Kumar, V. B. Singh</i>	
Enhanced Rectangular Patch Antenna with Assorted Slots: Optimized Design for 60GHz (V-Band) Utilizations	765
<i>Lavanya Kumari, Juhi Sharma, Kajal Goswami, Vaishali Kikan, Ashwni Kumar</i>	
Network Attack Mitigation in IoT-SDN Using Deep Recurrent Residual Neural Network	771
<i>B. N. Swarna Jyothi, S. Thaiyalnayaki</i>	
Macroeconomic Determinants of Bank NPAs: Insights for a Sustainable Financial System	776
<i>Rampilla Mahesh, Spoorthy Bajpe, Anamika Kumari</i>	
Reliable Drowsy Driver Detection Using Machine Vision and Deep Learning with Rich Facial Feature Analysis	781
<i>Bader Al-Haran, Fares Mohammad, Aaron Rasheed Rababaah, Mohammad Ashkanani, Bader Al-Otaibi</i>	
Advanced Dual-Band 27/39 GHz Modified Rectangular Patch Antenna with Inset and Tailored Slots for High-Frequency Ka-Band Applications.....	787
<i>Anshika Yadav, Jiya Kumari, Jasreen, Vaishali Kikan, Ashwni Kumar</i>	
Design of Energy and Power Efficient Adaptive Beamforming Technique in Massive MIMO for 5G	792
<i>G. Kanagavalli, P. Dhinakar</i>	

Improving Early Diagnosis: An AI-Powered Method for Precise Skin Cancer Identification	797
<i>S. Jenita Christy, G. Rosline Nesa Kumari</i>	
The User's Journey: A Historical Perspective on UI/UX Evolution	802
<i>Divyanshi, Rattan Pal Singh Rana</i>	
Securing Human Data with Blockchain: Real-Time Big Data Analytics and Privacy Solutions	807
<i>Lovkesh Singh Vermani, Anooja A, Blessy Thankachan</i>	
A Comprehensive Study on Challenges and Solutions in Massive MIMO-Detection Methods.....	812
<i>Yamini Komati, Sandanalakshmi Rajendran</i>	
Target Signal Jamming Using Forward Shifting Method for Linear Frequency Modulation Radars.....	819
<i>Chukka Anoosha, B. T. Krishna</i>	
A MMAMF Mitigation Strategy for Overcoming Cyber Vulnerabilities in a Cyber-Physical System	823
<i>Sidak Ahuja, Lakshya Rana, Ritika Wason, Parul Arora, M. N. Hoda, Devansh Arora</i>	
Enhanced Siamese Network for Tracking Two-Wheeler Riders Without Helmets Using Traffic Surveillance Video.....	827
<i>Ashima Garg, Sonali Gupta, Payal Gulati</i>	
Sustainability Performance Trends: A Comparative Analysis of Environmental, Social, and Governance Pillars in NVIDIA Corp Using Random Forest Regression	832
<i>Affan Ali, Chitrarekha Kumar</i>	
Safeguarding Privacy for Cloud Computing's Encrypted Data Using Association Rule Mining Algorithm and FP Growth Algorithm.....	837
<i>D. Mohanapriya, P. Anu, N. Kalyani, S. Rekha, R. Praba, S. Sasikala</i>	
Utilizing Deep Learning and Machine Learning Models to Predict Loan Default Risk.....	843
<i>Vipul Varshney, Ayush Goel, Deepika Kumar, Daksh Kaushik, Anindita Sinha</i>	
Oppositely Doped Core-Shell Junctionless Nanowire FET Based Biosensor: Proposal and Optimization.....	849
<i>Bharti, Poornima Mittal</i>	
Optimizing Healthcare Through Fog Computing: Simulating and Performance Evaluation of Real-Time Health Monitoring Systems.....	854
<i>Shallu Duggal, Parminder Kaur</i>	
Comparative Analysis of Deep Learning Models for Lung Cancer Detection: DenseNet121, AlexNet, and VGG16	861
<i>Gullapalli Dhatri, Nagulla Jaya Sravan Kumar, Kambhampati Pranav Sai, Beebi Naseeba, Bollapalli Althaph</i>	
Heart Disease Forecast: A Comparative Analysis of Recurrent Neural Network and Long Short Term Memory.....	867
<i>Bollapalli Althaph, Nagendra Panini Challa, Jajam Nagaraju, Kamepalli S. L. Prasanna</i>	
A Reflective FSS at 28 GHz with SIW Slotted Array Antenna for 5G Applications.....	873
<i>Ayan Chatterjee, Abhishek Dutta, Partha Pratim Sarkar</i>	
BiLSTM Model for Electricity Consumption Prediction: A Comparative Study with Traditional Machine Learning Approaches.....	878
<i>Neetu Chauhan, Shweta Bansal, Meenakshi Malik</i>	

Stack-Based Ensembles for Robust Neural Image Captioning.....	884
<i>Srilakshmi V., Uday Kiran G., Priyanka B., Dhanasai B., Ashritha K., Smarandas K., Prashanth C. S. R. K.</i>	
Linear B Cell Epitope Prediction Using ProtVec Based Encoder and Feed Forward Neural Network	890
<i>Hufsa Manzoor, M. Arif Wani</i>	
An Advanced Clustering with Toeplitz and Circulant Matrices and a Comparison Against Spectral Clustering, and K-Means.....	894
<i>Sneha Saragadam, Gamidi Rohan, Thotapalli Sri Surya Manideep, Sarada Jayan</i>	
Learning Correspondences Across Domains for Exemplar-Based Image Translation	901
<i>G. Uday Kiran, Srilakshmi V., K. S. Harshith, K. Nikhita, L. V. S. Mokshith, A. Sowmya</i>	
Eye Disease Classification Using Ensemble Learning	906
<i>Beebi Naseeba, Likitha Burra, Chitturu Surya Kumari, Basaraboyina Yohoshiva, Kamam Shyam</i>	
Generating Human Faces from Feature Descriptions Using DCGANs.....	912
<i>Pochamireddy Saiva Sri, Bellamkonda Greeshma, Thumati Naga Swetha, Beebi Naseeba, Bollapalli Althaph</i>	
Real-Time Object Detection Using Yolov9c and Flask Web Application.....	918
<i>Bhukya Chinni Krishna, Palakonda Jesse Angelina, Sree Jagadeesh Malla, Beebi Naseeba, Bollapalli Althaph</i>	
Ensemble Machine Learning Approach for Biological Bird Species Detection and Classification	922
<i>Kotha Lavanya, Gudditi Chetan, Manjunaatt Girish Kumar, Nagendra Panini Challa</i>	
Algorithms for Fair Hiring: A Review of Techniques for Detecting and Mitigating Bias	928
<i>Aarushi Singh, Akshita Goel, Jyotika Jaichand, Vaishali Kikan, Ashwni Kumar</i>	
Owner Identification from Postal Correspondence Using Machine Learning.....	934
<i>Lipika Sharma, B. S. Ashwath Babu, Sumit Goswami</i>	
Unveiling R&D Project Timelines with AI	940
<i>Raghav Chopra, Sumit Goswami</i>	
One-Shot Stylization for Transformative Facial Art Using StyloMorph	947
<i>Uday Kiran G., Srilakshmi V., Padmini G., Lavanya B., Tejaswini A., Vijay G., Ranveer D., Priyanka B., Bhagya Laxmi H.</i>	
RoBERTa's Resolve: Unveiling the Veil of Fake News.....	955
<i>Inturi Bharath Sai, Alamuri Chand Pasha, Beebi Naseeba, Bollapalli Althaph</i>	
Cascaded Speech-To-Speech Translation System Focusing on Low-Resource Indic Languages	960
<i>Praveen Sai Krishna Paleti, Bhavesh Saluru, Sainadh Vatturi, Basaraboyina Yohoshiva, Nagendra Panini Challa</i>	
Cutting-Edge AI for Plant Health: Advanced Residual Neural Networks in Leaf Diseases Segmentation and Classification	966
<i>R. C. Dyana Priyatharsini, G. Rosline Nesa Kumari</i>	
Tech-Enabled Altruism: Harnessing Technology in Social Media for Food Waste Reduction.....	971
<i>E. Sujatha, M. Jayanthi, N. Sandeepa, D. Naveen Raju, S. Nagaraj</i>	

Climate Change Analysis Using Machine Learning.....	977
<i>Dolly Sharma, Pawan Gupta, Gourav Rawat, Sharad Kumar, Suraj Malik, Nidhi Bansal</i>	
Advanced Mitigation of Network Attack in IoT-SDN Using Logistic Model Tree Based Stacked LSTM.....	981
<i>B. N. Swarna Jyothi, S. Thaiyalnayaki</i>	
Enhancing Drug Supply Chain Management with a Scalable Multi-Layered Blockchain Architecture.....	986
<i>Rahul Joshi, Suman Kumari, Krishna Pandey</i>	
Deepfake Image Verification Using DCNN with MobileNetV2	992
<i>Jeevana Jyothi Pujari, Thulasi Bikku, Kamepalli S. L. Prasanna, Sarvani Kocherlakota, Nancy Gupta, Raju Anitha</i>	
Python-Powered ETF Trading: Unleashing Algorithmic Trading Strategies.....	998
<i>Somnath Hase, Vikas Humbe</i>	
Impact Study of Traditional Meditation Practices Using PSD Assessment of EEG Signals	1002
<i>Mrinal Kanti Mishra, Atul Mishra</i>	
Integrating Artificial Intelligence in Management: Opportunities and Ethical Considerations.....	1007
<i>Ravinder Kaur, Deena Nath Gupta, Manisha Mittal, Rohit Anand</i>	
Precision Farming: Advanced Methods for Weed Identification	1012
<i>N. Fathima Shrene Shifna, K. Baalaji</i>	
Modelling LCR-Circuit into Integro-Differential Equation Using Variational Iteration Method and GRU-Based Recurrent Neural Network	1019
<i>Srinivasarao Thota, Tanneeru Gopisairam, Thulasi Bikku</i>	
Imperative Observation of Security in Qubes Operating System and User Anonymity in Digital Epoch.....	1025
<i>Ashish Sharma, Nausheen Khilji</i>	
Gastric Cancer Detection Using Yolov7 and CNN Based Ensemble Learning Models	1029
<i>E. Benitha Sowmiya, S. Thaiyalnayaki</i>	
Beyond Traditional Machine Learning: Investigating Quantum Approaches to Parkinson's Disease Diagnosis.....	1036
<i>Poonam Yadav, Meenu Vijarania, Meenakshi Malik</i>	
Performance Analysis of GCN, GNN, and GAT Models with Differentiable Pooling for Detection of Fake News.....	1042
<i>Prisha Gupta, P. K. Gupta</i>	
Analyzing the Impact of Artificial Intelligence on the Glass Ceiling and Glass Cliff Phenomena	1048
<i>Pooja Chahal, Hardeep Kaur</i>	
A Comprehensive Review of Deep Learning and IoT in Driver Drowsiness Detection for Safer Roads.....	1052
<i>Ritu Malik, Meenu Vijarania, Meenakshi Malik</i>	
Integrating AI into Pedagogy: Exploring AI-Enhanced Approaches for Student-Centered Learning	1059
<i>Manisha Mittal, Abhishek Tripathi, Ravinder Kaur, Deena Nath Gupta, Kamal Sardana, Shivam Avdesh Pandey</i>	

Analytical Comparison of Medicinal Plant Species Identification Using Artificial Intelligence	1063
<i>Gajanan Digambar Patil, Pritesh R. Gumble, Ashay I. Rokade</i>	
A Comprehensive Review and Analysis of Advancements in Breast Cancer Detection and Classification	1069
<i>Baljit Kaur, Renu Popli</i>	
AI Based Cyberbullying Detection and Prevention.....	1075
<i>Rohan Gupta, Ankit Kumar Singh, Utkarsh, Prachi Mittal, Radhika</i>	
Computational Assessment of Skull Base Osteomyelitis Due to Post-Covid Mucormycosis	1081
<i>Chander Sen, Ramandeep Singh, Krishna Chaitanya Banala, Ashish Suri</i>	
The Impact of Small Non-Coding RNA RsaE on Biofilm Development in Staphylococcus Aureus.....	1087
<i>Prashnatita Pal, Ritidrita Dhara</i>	
Enhanced Grasshopper Detection in Smart Crops Using Faster R-CNN Deep Learning Model	1093
<i>Pooja Vajpayee, Kuldeep Kr. Yogi</i>	
Multi-Model Machine Learning Techniques for Effective Parkinson's Disease Prediction and Diagnosis.....	1100
<i>Satishkumar Patnala, Sheik Khadar Ahmad Manoj, Kandrakunta Chinnaiah</i>	
Development and Evaluation of a Bidirectional LSTM Classifier for Sentiment Analysis in the Hausa Language	1106
<i>Mubarak Daha Isa, Surya Kant Pal, Rita Roy</i>	
Combating Misinformation: Insights into Datasets, Models and Evaluation Strategies for Fake News.....	1112
<i>Jyoti, Yogesh Kumar</i>	
Audio Sentiment Analysis Using CNN and BiLSTM	1116
<i>Kommineni Ajay, Kotha Lavanya, Gogineni Vaishnavi, Malla Sreejagadeesh, Beebi Naseeba</i>	
Telugu News Classification Using N-Gram Model.....	1121
<i>Gudditi Chetan, Kotha Lavanya, Manjunaatt Girish Kumar, Beebi Naseeba</i>	
PII Data Detection Using Keras & NLP.....	1127
<i>Yanni Rohan Kommathoti, Palanati Neha, Samudra Pabbathi, Beebi Naseeba</i>	
Offensive Message Spam Detection in Social Media Using Long Short-Term Memory	1132
<i>Sivakumar M, Abishek S. A, Karthik N, J. Vanitha</i>	
Plant Disease Identification Using MobileNetV2 and InceptionV3.....	1137
<i>Gudditi Chetan, Kotha Lavanya, S. B. S. S. Vamsi Krishna, Dasari Venkata Lakshmi</i>	
A Comparative Study of Object Detection and Pose Detection for Fall Detection Using Detectron2	1144
<i>Aayushi Bansal, Rewa Sharma, Mamta Kathuria</i>	
Advanced Flood Prediction at Forest with Rainfall Data Using Various Machine Learning Algorithms.....	1152
<i>Saravanan M. S, Sivashankar S, A. Rajesh, Masrullizam Mat Ibrahim</i>	
Smart MCQ Generation Using KeyBERT and BERT Based Models.....	1156
<i>Pranavesh Kumar Talupuri, Manjunaatt Girish Kumar, Kotha Lavanya, Gudditi Chetan, Nagendra Panini Challa</i>	

Self-Charging Electric Vehicle by Using Dynamo, and Accident Detection System	1161
<i>S. Sri Abirami, M. Kavitha, S. Senthilkumar, G. Sundaravadivel, G. Karthikeyan, T. Siva Kumar</i>	
Analyzing the Effect of Psychovisual Thresholding of DCT Coefficients for Improved Robustness of a Blind Watermarking Technique	1165
<i>Iffat Rehman Ansari, Nasir N. Hurrah, Mohd. Ayyub Khan, Ekram Khan</i>	
An ML Based Framework for Classification of Breast Histopathological Images Using Fused Feature Set.....	1172
<i>Diwaker, Kriti</i>	
Identifying Machine Generated Tweets: Deepfake Detection on Social Media	1177
<i>N. Fathima Shrene Shifna, K. Baalaji, Pasapala Niharika, Pasam Swathi, Pasangulapati Rama Krishna, Reddimala Leena</i>	
Visualizing Victory: An Extensive Analysis of the ICC T20 World Cup 2024.....	1182
<i>N. Fathima Shrene Shifna, K. Baalaji, Raava Badrinath Kailash Guptha, Recharla Manoj, Ravipati Chandu, Pyda Vinil Santhosh</i>	
Effect of Pesticides on Crop Health Monitoring Based on NDVI Using Machine Learning	1187
<i>Suvarna Pawar, Aman Badure, Adikrishna Bade, Sai Kolhe, Prasad Takwane</i>	
A Multi-Layered Quantum-Resistant Algorithms Based Approach to Mitigate Emerging Threats in ISP Cybersecurity	1193
<i>Arjun Alagh, Ritika Wason, Parul Arora</i>	
TEST-Web: An Automated Web Application Testing Tool for Enhanced Efficiency and Consistency	1198
<i>Ishaan Verma, Ritika Wason, Parul Arora</i>	
A Machine Learning Model for Recognition and Classification of Emotion Using Facial Expressions.....	1202
<i>R. Kamalraj, Sandeep Kumar Jain, Trapti Aggarwal, Khushmeen Kaur Brar, Mohammad Al-Farouni, Anita Gehlot</i>	
Leveraging Machine Learning for Breast Cancer Prognosis: A Systematic Review	1207
<i>Aditi Kajala</i>	
A Comparative Analysis of Skin Cancer Detection Using Shallow and Deep Learning Features	1216
<i>K. Suneetha, Manish Srivastava, Shweta Singh, Khushmeen Kaur Brar, Laith H. Alzubaidi, Rajesh Singh</i>	
Unraveling the Mysteries: A Literature Review on the Analysis and Interpretations of the Indus Valley Script	1220
<i>Kritika Nagal, Rakhee Sharma, Arpita Nagpal</i>	
An Effective Approach to Detect and Classify Human Monkey Pox Using Inception V3.....	1227
<i>Ritu Shree, Kalyan Acharjya, Khushmeen Kaur Brar, M. N. Nachappa, Mohammed I. Habelalmateen, Saurabh Aggarwal</i>	
Detection and Classification of Pneumonia Using DenseNet169.....	1232
<i>Bhuvana J, Inzimam, Khushmeen Kaur Brar, Ankita Agarwal, Muntather Almusawi, Devendra Singh</i>	
A Comparative Study on Natural Language Processing Approaches for Medical Prescription Classification Using Deep Learning Techniques	1236
<i>Velavolu Sravanthi, Sree Jagadeesh Malla</i>	

Enhanced Analysis of Global Warming Sentiments Using Twitter Data.....	1241
<i>Siva Prasad Bellamkonda, Teja Sri Vasireddy, M. S. Jagadeesh</i>	
Retinal Fundus Image Analysis and Classification for Diabetic Retinopathy	1247
<i>Asha Devi Dharmavaram, Suresh Babu M, Manu Gupta</i>	
A Cloud-Enabled Model for Healthcare Data Logs Protection Using Privacy Preservation on the Cloud Infrastructure.....	1253
<i>Saravanan M. S., Sivashankar S., A. Rajesh, P. Pavan Kumar</i>	
An Overview of Bibliometric Analysis and Field Surveys of Energy Consumption and Thermal Comfort in Public Housing: A Case Study of Sector-22, Chandigarh	1258
<i>Geetanjali Kapoor, Deepti Goel, Meenakashi Singhal</i>	
Concrete Strength and Cost Effectiveness of M25 Mix by Partial Replacement of Coarse Aggregate with Recycled PCC Waste	1264
<i>Deva Narayanan B, Mona Sood</i>	
Implementing Telemedicine Video Platform with Google Cloud Infrastructure	1271
<i>Repu Dhaman Chand, Ranjana Rajnish, Hem Chandra</i>	
Leveraging Feature Extraction and Machine Learning for Effective Plant Disease Classification	1277
<i>Ayushi Gupta, Anuradha Chug, Amit Prakash Singh</i>	
Image Enhancement Using Multiple Image Processing Algorithms and Multiprocessor	1282
<i>Atisri, Kalash Rastogi, Vikas Tripathi</i>	
Performance Evaluation of Multi-Disease Classification and Recommendation Models	1286
<i>Lakhvinder Singh, Dalip</i>	
Comparative Performance Analysis of Large Language Models for Deployment in Women's Healthcare Mobile Applications	1295
<i>Mukul Bedwa, Nishtha Hooda, Vikram Kumar</i>	
Analyzing the Impact of Climate Change, Population Growth, and Price Dynamics for Forecasting Pulses Production in India	1301
<i>Sanchit Aggarwal, Pranjali Upadhyay, Chennaiah Madduri, Mamatha Alugubelly, Arpit Khandelwal</i>	
A Doctor Assistance Tool: Personalized Healthcare Treatment Recommendations Journey from Deep Reinforcement Learning to Generative AI	1306
<i>Gautam Kumar</i>	
Semantic Role Labeling for Code-Switched Data.....	1315
<i>M. Nikitha, Padmaja Savaram, Sasidhar Bandu, Saketh</i>	
Improving the Impact of Resources on Patient Engagement for a Biopharmaceutical Company	1320
<i>R. A. Karthika, Rohini A., G. Rosline Nesa Kumari, Pushpalatha S., Valantina Stephen</i>	
A Comparative Study of Machine Learning Classifiers and Ensemble Method for Breast Cancer Detection Using XAI Technique	1327
<i>Hariprasad N, Annal Priyanga M, Duraimurugan S, Sushmitha M, Vedha Shri S</i>	
A Deep Learning Based Approach on CXR Images for Tuberculosis Detection Using Vision Transformer	1332
<i>N Hariprasad, M Annal Priyanga, S Duraimurugan, B Balamanikandan, B Ashwin</i>	

Optimized Feature Selection Framework for Efficient Heart Sound Classification	1336
<i>Najeeba Ansari, Musheer Ahmad, Ishfaq Ahmad Khaja, Mohammad Faraz Idris Siddiqui</i>	
Automatic Facial Emotion Recognition Using Hybrid Deep Learning Approach	1342
<i>Vaishali Singh, D. Ganesh, Khushmeen Kaur Brar, Pawan Bhambu, Laith H. Alzubaidi, Yashwant Singh Bisht</i>	
Enhancing Optical Sensitivity in DG-JL Transistor Through Gaussian Doping Technique	1346
<i>Vandana Kumari, Mridula Gupta, Manoj Saxena</i>	
TB Chest X-Ray Diagnostic Technique Using Deep Learning	1351
<i>Manish Kumar Goyal, Dhananjay Kumar Yadav, Khushmeen Kaur Brar, Manisha Mittal, Ananta Ojha, Laith H. Alzubaidi, Ashish Pathani</i>	
Analyzing Sequential Patterns in Customer Supermarket Transactions	1355
<i>Mala Saraswat, Shashwat Sharma, Ritik Roshan, Yatharth Aggarwal</i>	
Development of a Multi-Layered Authentication System	1360
<i>Surat Satsangi, Preetvanti Singh</i>	
Recommender System: Bibliometric Analysis of a Decade	1365
<i>Saumya Bansal, Niyati Baliyan</i>	
Comparative Analysis of Deep Learning Algorithms for Handwritten Digit Recognition	1368
<i>Padmaja Savaram, Sasidhar Bandu, Lakshitha B.</i>	
IoT-Based Garment Inventory Management System	1373
<i>J. K. Hayakreevan, S. Kirthick, C. Vishwarudhresh, M. Jagannath, D. Vydeki, G. Velmathi</i>	
E-Financial Sentinel: Navigating India's Digital Transaction Landscape	1378
<i>Subhra Prosun Paul, Dipayan Ghosh</i>	
Enhanced Deep Learning Approaches for Robust Darknet Traffic Classification	1384
<i>Felix Etyang, Pramod Pavithran, Gideon Mwendwa, Ngaira Mandela, Musiime Hillary</i>	
Cancer Subtyping Through Multi-Omics Feature Selection: A Review of Methods and the Superiority of Variational Autoencoders	1391
<i>Muneeba Afzal Mukhdoomi, Manzoor Ahmad Chachoo</i>	
PADRE-Based Analysis to Identify the Effect of Gate Length on Subthreshold Swing and Drain Current of a FinFET Structure	1398
<i>Annie Maria, K. K. Mishra, Rajnish Sharma</i>	
Exploring Radiation Effect on GP-SOI MOSFET Performance and Reliability	1403
<i>Neeshu, Deepanshu, Vandana Kumari, Poonam Kasturi, Manoj Saxena</i>	
Efficiency Redefined: The Document Scanner App for Precise Entity Identification with Customized NER	1408
<i>Sajid Javid, Mohammad Saim, Saiful Islam</i>	
Exploring the Efficacy of Large Language Models in Topic Modelling: A Comparative Analysis	1413
<i>Syed Ali Mehdi Rizvi, Fawwaz Bin Tasneem, Rafey Ahmad, Mohd Umar Khan, Nabeel Jamshed, Tameem Ahmad</i>	
A Comparison of Deep Learning Based Methods for Grading Papaya Fruit by Maturity Level	1419
<i>B. J. Bipin Nair, D. Rushab, S. Kruthik</i>	

Decongesting Terminal Stations and Sections Over Indian Railways by Circular Rail Operations	1424
<i>Rajnish Kumar Goyal, P. Ramachandran, Rakhee, M. N. Hoda</i>	
Optimizing Urban Planning and Development Using Pythagorean Fuzzy Sets in MCDM	1430
<i>Palvinder Thakur, Neeraj Gandotra, Sidhant Thakur, Aryan Panwar, Namita Saini</i>	
Bridging the Gap: Evaluating the Symbiotic Relationship of Cloud Computing with Data Science and Data Engineering	1436
<i>Rajesh Sharma R., Imamhussain Naikwade, Akey Sungheetha, Ketema Adere, G. S. Pradeep Gandasala, Sumit Kumar Banshal</i>	
Synergistic Neural Matrix Factorization: Elevating Complementary Product Recommendations in E-Commerce Using Deep Neural Networks.....	1441
<i>Neha Gupta, Vaishali Joshi, Aishwarya Chourey, Ekta Acharya</i>	
Citizen Cane - An Object Detection and Image Description System for the Visually Impaired.....	1445
<i>Akarsh Navhule, Akif, Keerthan Byndoor, Mohammed Nayaz An, Deepthi Shetty, Sarojadevi H</i>	
Improving Driver Safety: A Deep Transfer Learning Framework Optimized with Jaya Algorithm for Fatigue Detection.....	1452
<i>S. Veluchamy, Harini Pasupuleti, S. Saravanan</i>	
Enhancing Predictive Accuracy for Customer Churn in Digital Banking: A Multi-Model Analysis.....	1458
<i>Deepali Mayur Gala, Bhakti Pawar, Gayathri Band, Pallavi Dua, Biswa Ranjan Mohanty, Bhaskar Vijayrao Patil</i>	
Algorithmic Management and Work Motivation: Employee Voice Behavior of Platform Workers in Industry 4.0.....	1463
<i>Shelfali Sharma, Amit Mittal, Seema</i>	
Enhancing Speech Recognition in Noisy Environments Through Multiscale-Multichannel Feature Learning and Adaptive Noise Resilience.....	1468
<i>Sengottaiyan N., Sathishkumar S., Rajesh Sharma R., Akey Sungheetha, G S Pradeep Ghantasala, Karthika K</i>	
Smart Water Management for a Sustainable Tomorrow: A Digital Twin Approach for Rural India.....	1473
<i>Dinesh Kumar Singh, Vishnu Sharma</i>	
Detection of Rumors in Social Network Based on Machine Learning Algorithm.....	1481
<i>Shivangi Mishra, Ashwani Kumar, Avinash Kumar Sharma, Yojna Arora</i>	
Navigating the Road: A Thorough Analysis of Vehicle Detection Methods in Current Computer Vision	1486
<i>Danish Garg, Akash Kumar, Krish Chaudhary, Arshdeep Kour, Bhavya Mishra, Manni Kumar</i>	
MRI Brain Tumor Medical Images Multi Classification Using Deep Neural Networks.....	1492
<i>R Rekha Sharmily, B Karthik, T Vijayan</i>	
Enhanced IoT System for Real-Time Detection and Monitoring of Cardiac Events Using Machine Learning Algorithms.....	1497
<i>Safia Naveed. S, Nabeena Ameen, Nulin Jeriba J.</i>	
Datasets for Satellite Remote Sensing in Agriculture: An Overview and Analysis	1503
<i>Nisha Sharma, Kawaljit Kaur</i>	

Author Index