

CONTENTS

S. No.	Title	Page No.
1	An Analysis of Cauvery River Water Quality using Machine Learning Algorithms Dr. K. Shyamala & L. Karishma	1
2	Deep Learning for Detection of Synthetic Memory Loss From Color Coded Brain Magnetic Resonance Imaging V. Sujatha & Dr. S. Tamilselvi	11
3	Comparative Analysis of Multiclass Heart Attack Risk Prediction Using Logistic Regression and Deep Neural Networks with Dropout Dr. R. Arunadevi, Dr. G. Manimannan, Dr. R. Lakshmi Priya & Dr. D. Seethalakshmi	21
4	Deep Learning Based Sentiment Classification of Covid-19 Tweets with Tf-IDF CNN and LSTM Techniques Dr. T. Papitha Christobel & S. Anna Chitra	34
5	Deep Learning for Pattern Recognition and Automation – Applications in Images, Text, and Speech Using Neural Networks A. Areef Khan, PD. Yekanath & Dr. A. Manikandan	48
6	IOT Based Smart Irrigation Classification of Agricultural Conditions in Tamil Nadu using Random Forest and SVM K. Jeya Gowri & R. Samuel Kirubakaran	55
7	Transforming Healthcare: Synergy, Technology, and Innovation for a Smarter Future Mr. A. Areef Khan	65
8	Assessing Air Quality Management Efficiency in Major Indian Cities Using Data Envelopment Analysis P.D. Yekanath & A. Areef Khan	70
9	The Intelligence Network: AI and Iot in Urban and Health Systems Mr. K. Deepanchakkaravarthy	81
10	Enhancing Cyber Threat Detection in India Using Supervised Machine Learning Techniques A. Jeya Shanthi & K. Latha	90
11	IOT Devices as Data Generators in Smart Environments Dr. A. Vidhyalakshmi	98
12	Assessing Models for Forecasting Rainfall and Implementing Machine Learning Techniques C. Vijayalakshmi, S. Radhika & S. Sivasangari	107

13	The Evolution of Descriptive Answer Evaluation in E-learning: A Predictive Analytics and Machine Learning Perspective V. Kavitha & Dr. A. Jaya	117
14	Multiple Player Games: Matchmaking with Multiple Clustered Player Pools Using the Maximum Likelihood Estimation R. Jayashree, R. Reena Rose & J. Venkata Subramanian	126
15	Dynamic Attention-Guided LSTM for Real-Time Monitoring of Autoimmune Patients J. Jayashree & Dr. T. Sree Kala	133
16	Analysis of Agricultural Performance in Thanjavur Taluks using Machine Learning Algorithms P. Shoba, C. Lakshmi Priya, D. Flora Evangil & Dr. G. Manimannan	146
17	Seeking Directions and Overviewing Cyber Risk Insights Dr. S. Gomathi Meena & Dr. G. Manimannan	155
18	Image-Based Lung Cancer Diagnosis using Supervised and Unsupervised Machine Learning Algorithms K. Geetha & Dr. Karthikeyan Elangovan	174
19	Securing the Future: Evolving Paradigms in Iot Security and Privacy for Smart Environments Dr. Jiji Mol & J.P. Anith Beaugilin	183
20	Evaluation of the Performance of Machine Learning Algorithms for Flood Prediction A. Jayasudha	189
21	Predicting a Bitcoin Heist Ransomware Attack with Data Science Dr. K. Priya	198
22	Predictive Modeling of Anesthesia Complications in Surgical Patients Using Deep Learning Techniques A. Jyothi, J. E. Tamilmalar, E. Babby & Dr. G. Mannimannan	205
23	Blockchain Technology as a Catalyst for Transparent Medical Data Sharing S. Sangeetha & Dr. T. Sree Kala	216
24	Machine Learning Analysis of Fertility Outcomes in Tamilnadu Using Socio-Economic and Clinical Data Dr. S. Florence Vijila, S. Dharani, R. Thayammal & Dr. G. Mannimannan	224
25	Performance Analysis of Machine Learning Models for Iot-Based Smart Agriculture in Tamil Nadu Using Multi Class Metric T. Parikodi, M. Jasmine, S. Srimathi & G. Manimannan	236

26	Enhancing Cyberbullying Detection on Social Media Using NLP and Machine Learning Techniques G. Jayagopi & CB. Sumathi	246
27	Enabling Intelligent Ecosystems through Iot: Real-Time Sensing and Data Flow in Smart Environments Dr. M. Thirunavukkarasu	257
28	Exploring the Intersection of Intelligent Systems and Social Media Behavior: Privacy and Security Insights from College Students Dr. D. Jayaprabha, Dr. R. Kayalvizhi & Ms. P. Lakshmi	265
29	Deep Learning Applications in Text using Transformer Architectures, LLM, and Neural Networks S. Nandhini	273
30	Retinal Image Classification using Hybrid Graph Convolutional Network Mr. M. Ramesh, C. Vijayakumaran & P. Vijayakumar	284
31	Evolution of Artificial Intelligence in Various Fields Dr. R. Rathidevi	292
32	An Efficient Face Detection and Recognition System Dr. V.S. Padmavathy & J. Deepika	299
33	Artificial Intelligence in Logistics J. Praveena & S. Jeyashivani	307
34	Machine Learning in Healthcare V. Priyanandhini	318
35	A Trustless Escrow Mechanism that Supports Secure Peer-to-Peer Transactions Without relying on Central Authorities Mrs. S. Jayasree	325
36	Efficient Filtration with Satisfying Queries in Data Security Mr. M. Kannan	336
37	Implementing a Block Chain to Provide Security for Chat Applications Mrs. T. Sujatha Jayakrishnan	340