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274	Natural Language Processing for Literacy Text Mining: Extracting Knowledge from British National Corpus M. Pradeep, T. Sasivardhan, Gnaneswari Bodana, K. Shilpa, Kalyan Savalapurapu, G. Charles Babu	1816
275	Advancing Precision Ocular Health Assessment Through Artificial Intelligence-based Detection of Retinoblastoma from Fundus Images EMN Sharmila, Gunji Sreenivasulu, Piyush Charan, Rajib Mandal, Harshal Patil, Dharmendra Singh	1822
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280	Autonomous Exoskeletons for Real-Time Gait Analysis and Rehabilitation with AI for Mobility Impaired Patients Dr J Venkatesh, Deepa A, Ubaid Ul Mannan Mohammed, S. Murugan, R. Selvamanikandan, Sarikha V K	1861
281	Comparative Study of Machine Learning based Defect Prediction Models for Python Software Harsh, Harsh Santoshi, Priya Singh	1867
282	A Hybrid Convolutional and Graph Attention Network Architecture for the Classification of Fetal Brain Abnormalities Nidhi G D, Mamatha A, Sangeetha V	1873
283	Smart Waste Management System using Machine Learning Parimala Devi M, Priyanka A, Sanjay Nesan V, Shubiksha B, Gowrishankar V, Sathya T	1880
284	Comparative Analysis of Cardiac Segmentation using Custom U-Net on ACDC and Cardiac Catheterization Datasets Veena Devi Karthikeyan, Anusuya S	1886

285	Big Data Analytics and Predictive Modeling for Climate Change Impact Assessment Shreya Rajendra Gaonkar, Sriraksha S, Sudeeksha Shetty	1894
286	Intelligent Hand Sign Recognition and Linguistic Translation System Pranathi Adla, Pallavi Pola, Pullela Sai Kiran, A. Shiva Kumar, Dr R. Pitchai	1900
287	Explainable AI for Diabetic Retinopathy Classification and Prediction Sreelakshmi Vijay, Hari Krishnan N, Anjali T	1907
288	Automated Integrated Critical Care System V. Radhika, Kaniga Esakki S, Kaviyashree B, Kanmani C	1914
289	YOLO-Powered Deep Learning Framework for Smart Drone Surveillance in Emergency Rescue Operation Boddu Sanjana, Rishi Srii Dopathi, Dannaram Videeksha, Challagolla Sravya Chowdary, R. Pitchai, T. Subba Reddy	1918
290	Deep Learning and XAI for Knee Osteoarthritis Detection on X-Rays Gokul Thamp V R, Hari Krishnan N, Anjali T	1925
291	Market Intelligence System for Agricultural Commodity Price Forecasting using Deep Learning Chetan Aher, Kapil Kulkarni, Hariom Malode, Yash Marane, Abhishek Paturkar	1932
292	Cross-Modal Transfer Learning for Multimodal Enhancement in Human Computer Interaction Ritwij Kashyap, Raghav Billore, Prateek Kumar, Rahul Gupta	1938
293	Detection of Voice Pathologies and Classification using Deep Learning in Healthcare G. Brindha, Praveenkumar S, Sahin Nisha N, Vinith Kumar G, Vishnu Kumar K	1945
294	Performance Evaluation of Standard CNN Models for Osteoporosis Detection Sagar Y. Kumbhar, P. C. Bhaskar	1951
295	An Efficient Elderly Fall Monitoring and Detection System using Machine Learning and Computer Vision Senthil Kumar A, Selvaraj Kesavan, Rajkumar Bhojan, Kakarla Maanasa, Gokulakrishnan S, Rajasekaran Selvaraju	1957
296	Deep Learning for Human Activity Recognition: Trends, Challenges, and Edge-Centric Deployments D. Suresh Kumar, MY. Mohamed Parvees	1963
297	Optimized Malware Detection using Clouded Leopard Optimization for Feature Selection Mani V, Sivaraju S S, Jaikaruna. S, Lal Raja Singh R, T. Anuradha, Sivaganesan D S, B. Shuriya D	1968
298	An Adaptive Multi-Stage Ensemble Learning Approach for Accurate Diagnosis of Tomato Leaf Diseases R. K. Ramya, C. Meenakshi	1975
299	Multiple Lung Disease Classification using Fine Tuned Transfer Learning: An Explainable AI Approach Jyothilakshmi KN, R. Parmeswari	1982
300	Leveraging Hybrid Machine Learning to Detect Workplace Stress in Human Resource Systems Logesh Kumar K L, Kavisankar L, Pongiannan R K, Narayanamoorthi R, S. S. Sivaraju, Ramesh Pabba	1987
301	Real Time Implementation of Computer Vision based Road Traffic Monitoring System using YOLO 11 Purushothaman. K, Ponginnan R. K, Brindha R, Telugu Maddileti, Rajasekar L. S. S. Sivaraju	1994

302	Tomato Plant Leaf Disease Detection using Multiple Hybrid Vision Transformers Naga Siva Kollati, Pongiannan R K, Rajasekar L, Brindha R, Narayanamoorthi R, Pabba Ramesh	2000
303	Driver Drowsiness Detection using A Hybrid Deep Learning Framework K S Venu, R K Pongiannan, T. Senthilkumar, Telugu Maddileti, L. Rajasekar, R Narayanamoorthi	2005
304	Emotion Recognition from Multimodal Neuro Imaging Via Hybrid Siamese Convolutional Neural Networks Ranjith V, K. Muthuramalingam, Sivaraju S S, T. Sudhakar, S. S. Diwakar, B. Shuriya	2011
305	EfficientNet-Powered Multi-Modal System for Non-Invasive Diagnosis of Autism Spectrum Disorder B. Shanmathi, S. Kannagi, N. Thamilarasi, Ferin Kingsly M, Neerukattu Madhan Kumar, Sunnapugunta Venkatesh	2016
306	The Deep Learning for Recommender System: Architecture, Advancements and Future Trends Jeet, Dhiraj Khurana	2022
307	A Comparative Analysis of Machine Learning Models used to Predict Lung Cancer Tanuj, Amita Dhankhar	2030