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| 229 | Evaluating Deep Learning Models for Human Activity Recognition:<br>CNN, RCNN, and VGG Approaches<br>Ritika Jani, Dweepna Garg  | 1497 |
| 230 | Enhancing Accessibility for Visually Impaired on Integrating Object, Distance and Face Detection C. Selvarathi, R. Kannan, Muthumanickam K, P. Pandiaraja, T. S. Venkateswaran, R. Arunraj                                   | 1502 |
| 231 | A Multi-Dimensional Deep Learning Approach for Enhanced Cardiovascular Disease Diagnosis using ECG Signals S. V. Evangelin Sonia, R. Nedunchezhian, M. Rajalakshmi, Kavya S. P, H. Summia Parveen, Jerusha Miraclin Dulcie B | 1508 |
| 232 | Autism Spectrum Disorder (ASD) Classification using Deep Learning Suganya S, Buvana M  | 1515 |

| 233 | A Comprehensive Analysis for Optimizing Data Quality for Accurate<br>Cardiovascular Disease Diagnosis   | 1521 |
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| 234 | S. Sujatha, T. Menakadevi  A Mango Disease Prediction for Smart Agiculture using Machine Learning Algorithms  | 1530 |
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| 236 | Polycystic Ovary Syndrome Prediction through CNN based Image<br>Analysis: A Deep Learning based Approach<br>Yazhini Karthik, Sruthi R, Sujithra M   | 1547 |
| 237 | Predictive Stress Management for Working Women in Educational Institutions using Federated Learning and Wearable Technology D. Sudha Devi, M. Sujithra, P. Velvadivu, V. V. Kavya, S. Jhunandhini   | 1554 |
| 238 | A Deep Drive Analysis Framework on Emotions of Users in Attention<br>Driven Systems<br>S. Dharshini, Ravula Akshita, Suman Panigrahi, Nadimpalli Sai Kiran<br>Varma, Senthil Kumar Thangavel, Somasundaram K, Abel  | 1560 |
| 239 | Enhancing Climate Analysis with Integrated Data and Transparent AI<br>Methods via Stochastic Processes<br>Y. YesuJyothi, Subhani Shaik, Yalla Venkateswarlu   | 1570 |
| 240 | CapsENet: Deep Learning based Acute Lymphoblastic Leukemia Detection Approach Lalithkumar K, Naveen Raj B, Priyanga M A, Sandhya S, Karthiga M  | 1577 |
| 241 | Job Recommendation by Content Filtering using TF-IDF and Cosine Similarity Thansidh Kirthan Nadar, Athulya S. S, S. S. Rahul, K. Meenakshi  | 1585 |
| 242 | Optimizing Battery Recycling Processes in Electric Vehicle Life Cycle Assessment using a Hybrid Model of LSTM and Deep Reinforcement Learning Divya Nimma, N. Prakash, Shamim Ahmad khan, Mahesh Manchanda, N. Poongavanam, I Infant Raj  | 1591 |
| 243 | Efficient AQI Prediction: A Comparative Study of Artificial Neural Networks, LSTM, Random Forest, and Gradient Boosting Techniques Swara Sameer Pawanekar, Jagadish S Kallimani, Geetanjali Udgirkar, Rashmi M. R, Sanitha Michail C, Lee Hoong Pin                                   | 1597 |
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|      | MedConnect - A Comprehensive AI-driven Platform for Seamless Patient                                       |      |
| 248  | care and Optimization of Medical Services  | 1626 |
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|      | using Deep Spiking Neural Network Diagnostics via Aphid Ant  |      |
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| 263 | Integration of Voice and Handwritten tests Analysis for Enhanced Detection of Parkinson's Disease using Machine Learning  | 1722 |
|-----|---|------|
|     | Mohamed Ziyadh M, Bavisetti Siva Avinash, K. Sreekumar, Sibi Amaran   |      |
| 264 | Automated Polyp Detection in Colorectal Cancer Diagnosis using Deep<br>Learning Techniques<br>Koushik Sundar, Vijay K, Krissh Shankaran N, Eashaan Manohar  | 1726 |
| 265 | Enhanced Pest Detection in Agriculture using Advanced Feature Extraction and Classification Models Tini Susan Abraham, Anjali.K, Agatha Aji, Anjana K Saju, Krishnapriya M J  | 1732 |
| 266 | Reinforcement Learning for Patient-Centric Lighting Management<br>System in Healthcare Sector<br>K. Lalitha, T R Saravanan, N. Mohankumar, G Geethamahalakshmi, M.<br>Xavier Suresh,<br>S. Murugan  | 1740 |
| 267 | Advancing Rose Disease Diagnosis: A Deep Learning Framework with EfficientNet-B7 S. Poornima, R. Divya, R. Santhana Krishnan, S. Jegadeesan, G. Yamini, G. Vinoth Rajkumar  | 1747 |
| 268 | A Brief Survey of Data Preprocessing in Machine Learning and Deep<br>Learning Techniques<br>Bindu Bala, Sunny Behal   | 1755 |
| 269 | Synergizing CNNs: An Ensemble Framework for Enhanced Image<br>Classification<br>Raj Aryan, Anjaneya Gupta, Ashwin Tiwari, Anny Leema A  | 1763 |
| 270 | Liver Tumour Detection through Artificial Intelligence: A Comprehensive Study V. Varalakshmi, U. Hemamalini   | 1772 |
| 271 | Smartphone-based Strep Throat Detection using MTCNN: A Deep<br>Learning Approach for Non-Invasive Diagnosis<br>G.M.Sathyaseelan, L. Sankara Maheswari, S. Sophiya, M. Malini, S. P.<br>Santhoshkumar, Vikram D  | 1778 |
| 272 | An Empirical Analysis of Machine Learning Algorithms for Agricultural<br>Crop Prediction<br>Ujwal Pai Jakarbet, Suhas S P, Savithramma R M, Ashwini B P   | 1782 |
| 273 | Innovative Machine Learning Approach to Predict Onset for Parkinson's Disease Deepika Nadar, Zeal Tailor, Priyadarshani Sarangi, Krutisha Shirke  | 1791 |
| 274 | Advances in Machine Learning for Stroke Prediction: A Comprehensive Review F. Mohammed Arshad, K. Sharmila  | 1798 |
| 275 | Pneumonia Detection using Machine Learning Techniques<br>Mohd Rameez, K. Senthil Kumar, MJ Logashree  | 1803 |
| 276 | Enhancing Diagnostic Accuracy and Early Detection through the Application of Deep Learning Techniques to the Segmentation of Colon Cancer in Histopathological Images Mahaveerakannan R, Shailee Lohmor Choudhary, Rinku Sharma Dixit, Srikanth Mylapalli, M. Sathish Kumar | 1809 |
| 277 | An Enhanced Approach to Content-based Image Retrieval using Harris<br>Hawks Optimization and Automated Image Captioning<br>Roshni Padate, Ashutosh Gupta, Prasun Chakrabarti, Arvind Sharma   | 1816 |
| 278 | Wearable Technology and Gesture Recognition on Devices to Manage<br>Intelligent Building Automation Systems<br>Mohammad Sharjil Khan  | 1825 |

|         | Predicting Crop Yield based on Stacking Ensemble Model in Machine     |       |
|---------|---|-------|
| 279     | Learning  | 1831  |
| 217     | K Umamaheswari, R. Madhumathi   | 1631  |
|         |   |       |
| 280     | Analyzing Market Factors for Stock Price Prediction using Deep        |       |
|         | Learning Techniques   | 1837  |
|         | Suresh K, Aritra Sarkar, Apoorva Vasishtha, Anjali Rai, Apoorva       |       |
|         | Vasishtha, Tyrell Fernandes, Cecil Donald A                           |       |
|         | LFMEP: A Robust Design of Food Image Classification Methodology by    |       |
| 281     | using Learning based Feature Metric Evaluation Principle              | 1842  |
|         | U Ragavee, Maria Swetha, Rohit SJ, Shree Hari, Pragat D, Surya V      |       |
|         | Optimization of the Dense Connected Convolution Neural Network        |       |
| 202     | towards Prediction of Crop Health and Maximizing Crop Yield using     | 10.50 |
| 282     | Firefly Optimization  | 1850  |
|         | Annamalai S, Saran J, Rahul S, Abishek P, Mekala N, Sasirekha S. P    |       |
|         | A Lexical Model for Automated Essay Evaluation System using           |       |
| 283     | Ensemble Learning Techniques  | 1856  |
| 203     | A M Bojamma, Mrinmoyee Bhattacharya, Trevis Chang Fei Liu             | 1030  |
|         |   |       |
| 204     | Adaptive Deep Learning Techniques for Real-Time Shortest Path         | 1070  |
| 284     | Optimization in Drone Ambulance Operations during Disaster            | 1860  |
|         | Bose S, Maheswaran N, Logeswari G, Anitha T, Prabhu D, Gokulraj G     |       |
|         | Bug Testing Automation with Playwright and a Backend API              |       |
| 285     | Khevna Vadia, Aryan Thukrul, Priyanka Ghosh Mazumdar, Nikhil          | 1867  |
|         | Panda, Ajay Sirsat  |       |
|         | Emotion Recognition from WhatsApp Text Messages using                 |       |
| 286     | Unsupervised Machine Learning   | 1871  |
|         | Roshni Padate, Ashutosh Gupta, Prasun Chakrabarti, Arvind Sharma      |       |
|         | Real-Time Neural Network Translation in Human-Animal                  |       |
| 287     | Communication   | 1877  |
|         | George Princess T, Dhanesh C, Fazil Aslam A                           | ,     |
|         | Revolutionizing Business Intelligence with AI Insights and Strategies |       |
|         | Uzma Sarwar, Narinder Kumar Bhasin, Dibyahash Bordoloi, Sunil         |       |
| 288     | Kadyan, S. Kezia,   | 1883  |
|         | S Muthuperumal  |       |
|         |   |       |
| 200     | Evaluating AI-based Deep Learning Models for Enhancing English        | 1000  |
| 289     | Reading Comprehension Skills in students                              | 1890  |
|         | Divya Nimma, V. Arunadevi, Mehul Manu, V. Selvi, Prema S              |       |
|         | Kookaburra Optimization Algorithm and Feature Aggregated Region       |       |
| 290     | based Differential network for Colon Cancer Detection from            | 1896  |
| 270     | Histopathological Images  | 1070  |
|         | J. Gowthamy, S. S. Subashka Ramesh                                    |       |
|         | Watch Me: A CNN Based Platform for Bird Species Identification and    |       |
| 201     | Educational Resources   | 1005  |
| 291     | Nidhi Gaur, Jenica Kodankandath, Tanvi Mhasal, Jasmitkaur Mukhtiar,   | 1905  |
|         | Rexlin Nadar  |       |
|         | Enhancing Tackle Prediction in NFL Games Through Feature              |       |
| 292     | Engineering and Hybrid Machine Learning Models                        | 1913  |
| <i></i> | Divya Nimma, Arjun Uddagiri   | 1/13  |
|         | Preventing Spinach Stems Wastage Part Reusing Through RNN and         |       |
| 202     |   | 1020  |
| 293     | Collaborative Filtering   | 1920  |
|         | K. Lekhya, Surendran R, Raveena S                                     |       |
|         | HydroStack: A Hybrid Meta-Ensemble Machine Learning Framework         |       |
| 294     | for Accurate Annual Rainfall Prediction                               | 1926  |
|         | Shashank Shetty, Dhanyashree, Diya Dharmendra, Sanjay Bankapur,       | 1720  |
|         | Prabhu Prasad B M   |       |

| 295 | Quantum Neural Network for Image Feature Extraction using MNIST Mareddy Anusha, R Thangam, Sanjay Dubey   | 1935 |
|-----|---|------|
| 296 | AI-Enhanced Deep Learning Techniques for Evaluating Progress in English L2 Learners Vijay Prasad L.T, A Balavivekanandhan, Dibyahash Bordoloi, M. Mythili, Sreela B, Fredrick Ruban Alphonse  | 1941 |
| 297 | MRI Image Enhancement using POSHE and CLAHE<br>Deepa Abin, Khushi Thakare, Abhijeet Fasate, Atharva Suryawanshi,<br>Spandan Surdas  | 1948 |
| 298 | Enhancing Housing Price Prediction Using AI and Machine Learning: A<br>Stacked Regression Meta-Modeling Approach<br>Malgi Nikitha Vivekananda, Prashant Ashok Shidlyali   | 1954 |
| 299 | Handwritten Digit Recognition using Ensemble Learning with Deep<br>Learning-based Feature Fusion<br>Arjav Ankoliya, Hetvi Bhadani, Hitwanshi Dalsania, Parth Goel   | 1961 |
| 300 | Work-Life Balance and Employee Retention Among women Seafarers: A Comparison of Machine Learning Aarthi Suresh, Krithika. M   | 1967 |
| 301 | A Comparative Study on Deep Learning based Segmentation Techniques for Tamil Inscriptions K. Poornimathi, V. Muralibhaskaran, L. Priya  | 1976 |
| 302 | A Hybrid Approach for Underwater Image Enhancement<br>Deepa Abin, Spandan Surdas, Atharva Suryawanshi, Khushi Thakare,<br>Yash Saravane   | 1983 |
| 303 | Plasma Technology in Disinfection and Sterilization: Core Principles and<br>Emerging Innovations for Biological Applications<br>Paribhasha Sunil Bandewar, Natarajan K, Vinod Kumar D, Arunkumar<br>Madhuvappan C, Murali G, Kannan S | 1991 |
| 304 | Optimizing Dead Stock Management in the Textile Industry Through<br>Machine Learning<br>Priya L, Surendar A   | 1996 |
| 305 | Deep Learning Classroom Management system for Exam Monitoring<br>and Student Behavior Detection<br>Parkavi. A, Pushpalatha M N, Sini Anna Alex  | 2004 |
| 306 | Advancements in Predictive Techniques and Effective Management<br>Strategies for Dengue Fever: A Comprehensive Review<br>P. Muthuselvi, V. Anusuya Devi   | 2010 |
| 307 | Face Recognition using Adaboost Classifier for the Visually Impaired<br>Avinash N J, Krishnaraj Rao N S, Rama Moorthy H   | 2018 |
| 308 | Comparative Analysis of Dimensionality Reduction Techniques in<br>Machine Learning Models for Liver Disease Detection<br>Manish Rai, Hemlata Parmar, Shivangi Singh   | 2023 |
| 309 | Utilizing Deep Learning for Enhanced Urban Traffic Forecasting: An Analytical Perspective Sreelekha M, Midhunchakkaravarthy   | 2028 |
| 310 | Enhancing Social Media Integrity: A Multi-Platform Machine Learning Approach to Detecting Fake Accounts with a User-Friendly Streamlit Interface Ram Shankar G, Anunandhana. S, Subhashree M  | 2036 |
| 311 | Genetic Data for Early Detection and Treatment of Cystic Fibrosis Through Machine Learning Deepthi P, Bhuvaneshwari M, Chithra K, Dhanasree LP, JananeeV, J. A. Adlin Layola  | 2044 |

| 312 | Systematic Review on Breast Cancer Prediction and Classification by using Machine Learning and Deep Learning Methods Sampoornamma Sudarsa, R. Pradeep Kumar Reddy                        | 2049 |
|-----|--|------|
| 313 | Optimizing Parkinson's Diseases Detection from Vowel Phonation: A Bayesian Approach with K-Nearest Neighbours Jyoti Kumari, Prabira Kumar Sethy, Santi Kumari Behera, Ashoka Kumar Ratha | 2060 |
| 314 | Biometric Liveness Detection Guarding Against Spoofing Attacks using Machine Learning Techniques Meghana Lokhande, Mrudula Khedkar, Nikita Desale, Mrunal Chopade, Pratiksha Ghodke      | 2065 |
| 315 | JARVIS: A Next-Gen Conversational AI Platform<br>Praveena Kakarla, Sudula Jaya Sruthi, Pathan Zahid, Vaddellugari Neha,<br>Sugali Sai Charan   | 2071 |
| 316 | Optimizing Customer Engagement through Advancements in NLP based Video Caption Analysis Abdul harsath M, Arshad A, Hari prasath R, R. Srikanth   | 2076 |