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A web automation AI Tool. -- Defending the Digital Frontier URL-based Phishing Detection Extension. -- Guarding the Digital Frontier: A Logistic Regression Approach to Malware Detection. -- Hybrid Efficient IDS Against Adversarial Attacks in IoT Networks. -- Data Analytics. -- Real-Time Soil Moisture Sensing using Arduino for Automated Plant Irrigation System. -- Campus Placement and Salary Prediction: Leveraging Machine Learning for Enhanced Employability. -- Exploring Corrosion Detection: Deep Learning and Ensemble Approaches Analysis. -- Comic Generation using AI - A Review. -- Residential Price Analysis Using Machine Learning. -- AI-Driven Interviewer: Enhancing Interview Experience Through Conversational AI. -- Human Abnormal Activity Detection. -- Campus Drive Portal on Career Advancement for College Students. -- Deception Detection using Random Forest and KNN. -- Analyzing Meteorological Data for Curated Music Selection. -- Remote and Centralized Billing System using Cloud Computing. -- Information Extraction using RPA and Generative AI from Unstructured Documents: A case of Invoices. -- Harnessing Machine Learning-Based Classification Techniques to Optimize Crop and Fertilizer Recommendations. -- Cyberbullying Predictive Analysis on Twitter data with Multi-Model Supervised Technique. -- Heart Attack Prediction Using Big Data Analytics. -- Bloom's Taxonomy based Question Analysis for Personalized Learning. -- Snowfall Forecasting with Enhanced Accuracy: Leveraging Multi-Class SVM for Meteorological Predictions. .-Crop Irrigation Advisory system using Federated Logistic Regression. -- Supply Chain Management Using Optimzation and Machine Learning Techniques. -- Cricket Forecast: Unraveling Future Matches' Outcomes. -- Deep Learning Ensemble for Diabetes Prediction: Integrating LSTM, DCNN, and SMOTE for Enhanced Risk Assessment. -- Optimizing Hyperspectral Image Classification through Swin Transformer Integration and CNN Feature Extraction. -- Efficient Task allocation with Mentorship Mapping in Crowd sourcing Platforms. -- Applications of ML. -- Designing an Enhanced Swarm-Based Optimization Algorithm for High Utility Itemsets Mining. -- Bus Route Tracking System. -- Sentiment Analysis of Various Ride Sharing Applications Reviews: A Comparative Analysis between Deep Learning and Machine Learning Algorithms. -- Quantum-DL Integration for Precise Remote Sensing Image Classification. -- Review on Biomedical Informatics through the Versatility of Generative Adversarial Networks. -- Machine Learning Powered Nutritional Guidance System using Personalized Nutritional and Digital Health Record. -- Predicting Hospital Length of Stay Using Light Gradient Boosting Machine Regression. -- Electroencephalogram Based Stress Detection Using Machine Learning.

Sommario/riassunto	These two-volume set IFIP AICT 717 and 718 constitutes the refereed post-conference proceedings of the 7th International Conference on Computational Intelligence in Data Science, ICCIDS 2024, held in Chennai, India, during February 21–23, 2024. The 63 full papers and 9 short papers were presented in these proceedings were carefully reviewed and selected from 259 submissions. The conference papers are organized in topical sections on: Part I - Applications of AI/ML in Natural Language Processing; and Applications of AI/ML in Image Processing. Part II - Applications of AI/ML in KDM, Cloud Computing & Security; Data Analytics; and Applications of ML.