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Nota di contenuto	-- Emerging Trends in AI for Speech and Text. -- Enhancing Academic Performance Prediction: A Novel Approach Using the TabNet Algorithm. -- Domain-Specific Paraphrase Identification for Tamil Using SBert Models. -- Synergy of Building Information Models and Semantic Web of Things for Next-Generation Building Intelligence. -- Leveraging

Attention Mechanisms for Toxic Comment Classification and Real-Time Moderation. -- A Comprehensive Survey on AI-Based Approaches for Android Botnet Detection. -- A Hybrid approach to Movie Recommendation: Combining Neural Networks with Collaborative Filtering. -- Distilled GNN Approach for Anomaly Detection in Ecommerce. -- Predicting Watermelon Seed Disease using DBSN Deep Learning Method. -- Automatic Answer Assessment System for E-learning. -- Computational Intelligence for Secure, Smart and Sustainable Applications. -- Securing Sensitive Data Using Quorum-Based Encryption in HealthCare. -- Quantum AI-Enhanced Health Care Diagnostic Pod: A Leap Towards Accurate and Accessible Diagnostics. -- Post-Quantum Email: A Practical Implementation of Lattice- Based Cryptography with Crystals-Dilithium for Advanced Email Encryption. -- Towards Robust Anomaly Detection in Cyber-Physical Systems: Approaches, Challenges, and Future Directions. -- Automated Motor System for efficient Water Management: A step towards Sustainable Future. -- AI-Powered Scribble Analysis for Early Detection of Developmental Challenges in Special Children. -- Defect Detection and Classification on Robot-Painted Pattern Surfaces Using Machine Learning Techniques. -- Dimensionality Reduction-Enhanced Few-shot Binary Classification of Electric Meters: An Empirical Analysis and Performance Evaluation. -- A Review of Neuromorphic Computing and its Potential for Enhancing Digital Twin Technology. -- Quality processing for mobile crowdsensing user data. -- A Vision based Hand Gesture Interface for Controlling VLC Media Player. -- Wellness Wizard - A Diet Planner Powered By AI. -- Beyond 5G: How Blockchain is Revolutionizing Mobile Connectivity. -- Enhanced GAN based Framework for Super Resolution of Satellite Images. -- Modified Fractal Based Genetic Algorithm for Packet Scheduling in Mobile Ad hoc Networks. -- Unlocking Hidden Patterns: A Comparative Analysis of Apriori and Adaptive PCY Algorithms in Big Data Association Rule Mining for Business Intelligence. -- A2RS: Adversarial Attack Resistant Steganography Technique for Medical Images in Digital Healthcare. -- Detection and Avoidance of Counterfeit Products Using Blockchain and Geographical Indication Tags. -- Quantum Machine Learning: Applications in Electrical Engineering. -- Cyber-Physical System for Real-Time Road Monitoring, Incident Detection, and Traffic Management. -- A Hybrid System for Sustainable Pesticide Application and Health. -- Bridging the Gap: Air-gapped Networks in the Era of ML and Big Data. -- Breast Cancer Detection through Tumour Metrics using Machine Learning Algorithm. -- Enhanced Healthcare Efficiency through IoT-Enabled Energy Monitoring System.

## Sommario/riassunto

The three-volume set IFIP ICCIDS 748, 749 and 750 constitutes the refereed post-conference proceedings of the 8th IFIP TC 12 International Conference on Computational Intelligence in Data Science, ICCIDS 2025, held in Chennai, India, during February 12–14, 2025. The 91 papers including 70 regular papers and 21 short papers included in these proceedings were carefully reviewed and selected from 317 submissions. The papers are organized in the following topical sections: Part I: Computer Vision for Real World Applications. Part II: Computer Vision for Real World Applications; Emerging Trends in AI for Speech and Text. Part III: Emerging Trends in AI for Speech and Text; Computational Intelligence for Secure, Smart and Sustainable Applications.