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Nota di contenuto	-- TrendPulse: an AI Powered Content Reach Optimizer Model. -- Design and Analysis of Advance DGS Pi-Slotted Microstrip Patch Antenna for 5G Applications. -- Broadband and High Gain Annular Ring Microstrip Antenna for Satellite Applications. -- Improving the performance of a Quarter Vehicle Model with a Complex Lead Compensator. -- Optimizing Loan Approval Processes Using Machine Learning Algorithms. -- VLM in Remote Sensing: A Comprehensive Review. -- Comparative analysis of object storage clients for Julea framework: AWS vs. MINIO. -- Automatic Detection of Fake News using Machine Learning Models. -- PICSLEUTH: Deep Fake Detection with Machine Learning Models. -- Tracking of Motion-based Human

Detection through ByteTracker Method. -- Assessing the Energy Efficiency and Environmental Impact of Solar Water Heating Systems in Residential Buildings. -- Use of Hand-Held Echocardiography (HHE) devices for the screening of heart diseases. -- Dual-Analysis Model for Early Detection of Stress Using EEG Data: Enhancing Health Outcomes Through Machine Learning. -- Attention Mechanisms in Text Recognition: Exploring the Role of Attention Modules in Improving Text Localization and Recognition Performance. -- JARVIS: A customizable voice assistant leveraging NLP for enhanced productivity and user interaction. -- TEXT FUSION+: Advanced integrated image-to-speech and text analysis systems for enhanced accessibility and interactive learning. -- Early Diabetes Detection using Random Forest Classifier based on Machine Learning. -- Evaluating Vegetation Indices for Crop Monitoring using Multispectral Satellite Imagery. -- Integrating AI with eDNA for marine biodiversity monitoring. -- Comparative Analysis of Software Development Models: Evaluating Effectiveness Across the SDLC. -- Performance Optimization of Plasmonic Sensor using Machine Learning and Generative Adversarial Networks. -- Smart Grid Integration: Comparing AMR, DR, and ESS Techniques for Safety, Efficiency, and Cost-Effective Adoption. -- Optimal Bidding Strategy for Generation Companies in Deregulated Electricity Market Environment. -- Next-Generation collaborative Web Editor for Seamless Remote Teamwork: Enhancing Communication, Creativity, and Productivity. -- GVSM and CVI For Voltage Stability Assessment. -- Voyage Sphere: A Comprehensive Web-Based Tour Management Platform for Seamless Travel Experiences. -- Preprocessing Techniques for Heart Disease Prediction using Machine Learning. -- Docker-based Virtualization for Cyber-Physical Systems: A Comparative Analysis. -- Artificial intelligence techniques for short term load forecasting in Microgrids. -- Battery Swapping Station Design Based Genetic Algorithm and Particle Swarm Optimization.

Sommario/riassunto

This volume constitutes the proceedings of 2nd International Conference on Advanced Computing Techniques in Engineering & Technology, ACTET 2025, in Jaipur, India, during February 12–13, 2025. The 30 full papers presented in this volume were carefully reviewed and selected from 106 submissions. They focus on all aspects of distributed computing, machine learning, optimization algorithms, and interdisciplinary applications of computing technologies.
