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Nota di contenuto	Part I - Artificial Intelligence & Digital India -- Federated Learning for Enhanced Deep Learning Integration: A Practical Approach -- A Systematic Review of RDHEI with Consistent Experimental Evaluation -- Predictive Modelling of Rice Yield Using Environmental Factors and Machine Learning -- Artificial Intelligence and Cognitive Information Systems: Revolutionizing Business with Generative Artificial Intelligence and Robotic Process Automation -- Anomaly Detection for Power Consumption: A Comprehensive Multi-Technique Approach -- Exploring Computational Thinking through the Lens of Algebraic

Thinking -- Securing The Internet of Things: AI-powered Threat Detection and Safety Measures -- An Avenue Study of Convolutional Neural Network for Image Stratification -- Performance Exploration on Some Neoteric Metaheuristic Based Approaches for Problem Solving in Optimization -- Transforming Business Approaches with an Integrated Machine Learning and Algorithmic System, Guided by Visual Data Dashboards -- Mental Illness Identification through EEG Feature Segregation and Machine learning -- A Comprehensive Exploration of Convolutional Neural Network Architectures in Deep Learning -- Human Generated vs AI Generated Text: A Comparative Study -- Improving Disaster Response With U-Net And Attention Mechanism In Earthquake Damage Assessment Using Remote Sensing Data -- AI-driven HR practices: Recent trends in digital HR tools and their perceived benefits -- Detecting Brain Tumor using Deep Learning through CNN model -- The Societal Implications Of False Positives Using Machine Learning -- Unraveling Autoimmunity: Exploring Etiological Factors and Machine Learning Applications in Varied Autoimmune Disease -- Advancing Marine Plastic Detection with CLAHE-Enhanced YOLOv8: A Comparative Study with YOLOv7 and YOLOv6 -- Comparative Study on Different Approaches Used in Word Sense Disambiguation-NLP -- Explainable AI in Healthcare: Methods, Concepts and Challenges -- Bidirectional Short-Term Memory with Osprey Optimization Algorithm for Automatic Recommendation System -- Cardiovascular Predictive Analysis with Machine Learning Fusion -- Ayurvedic Plant Leaf Detection Using Hog Feature Descriptor and Svm Classifier -- A Hybrid Deep Learning Approach for Android Malware Detection -- Part II - Cyber Security and Cyber Physical Systems -- Crypto currency Price Prediction model using deep learning for Financial Institutions -- Practical implementation of model classic mceleice cryptosystem -- Fake Profile Detection on Social Networks - A Survey -- Proof Of Computational Power: An Innovative Consensus Algorithm for Blockchain Systems -- Part III - E-Learning, Cloud and Big Data -- Feature Selection using Particle Swarm -- Optimization for Microarray Data Classification -- Revolutionary Dehazing Advances: A Comparative Study -- Implementation challenges of industry-specific ERP System solutions by utilizing Best Practices -- Empowering Real-Time Insights through LLM, LangChain, and SAP HANA Integration -- Fine-tuning CodeLlama to Fix Bugs -- Graphics Shader program development in C# using Source Generators -- Smart Viewing: Redefining Value in Over The Top Streaming Experiences -- Enhancing Performance and Scalability of a Flutter-Based Food Ordering Application through Microservices on AWS -- System problems to develop systems thinking in computer science education -- Deconstructing Big Data for Carbon Emission and Carbon Footprint Detection -- A Review: YOLO and its advancements -- Decoding Ethics: Proficiency of LLMs in Addressing Moral Dilemmas -- Evolution of Financial Question Answering: Themes, Challenges, and Advances -- Adoption of Industry 4.0 in the Automotive Industry Contributes to Reduction in Energy Consumption During the Production Process -- Copernicus Satellite Data: Terrain Modelling with Python -- Application of the method of representation of decision rules in a hierarchical structure for forecasting and data analysis -- Using machine learning to find dependencies in data to improve working conditions -- Applying data analytics to effectively expand banking service offerings -- Part IV - Image Processing & Computer Vision -- Detection and classification of plant diseases using a textural feature analysis and classification system -- Optimal Sensor Data Resampling for Anomaly Detection in Industrial Control Systems -- ReviewRanker: A Semi-

Supervised Learning Based Approach for Code Review Quality Estimation -- Optimizing System Performance in Punjabi Language Processing: Revealing Linguistic Nuances and Advancing Computational Solutions -- BrMEPS:Review on 3D Body Reconstruction and Measurement Estimation for Personalized Clothing -- A Review on Exploration of EEG-Based Mental Illness Detection Tools and Techniques -- A Novel Handwritten Prescription Recognition with Stochastic Gradient Descent using Adaptive Momentum Learning -- Enhancing Automatic Speech Recognition in Air Traffic Communication through Semantic Analysis and Error Correction -- Part V - IoT and Networking -- Energy Efficient Water Purification Plant Design Techniques -- IOT-Based 5G Healthcare Systems With Blockchain For Improving the Security of Healthcare Monitoring System -- Intrusion Detection System in the Industrial Internet of Things (IIoT) using Deep Learning -- Authentication and Data Access Challenges in Safeguarding Industrial IoT -- Exploring Application Deployment on Edge Solutions: A Focus on Mobile Edge Computing, Akraino Eliot, Edgex, and Openvino for Healthcare Applications -- Eyes in the Sky: Safeguarding Borders Security with AI-Powered Aerial Monitoring and IoT Integration -- Crop-Health Monitoring for Precision Agriculture Using IoT-Based Sensors in Drones -- Revolutionizing Scene Text Recognition: Unleashing the Power of Dual Step Attention Mechanism in the Encoder -- Anomaly Detection in IoT Networks using Differential Evolution and XGBoost -- Miniaturized UWB (C2F4)n-Based Antenna Array for Future CubeSat Swarms.

Sommario/riassunto

This book features selected papers presented at the 6th International Conference on Recent Innovations in Computing (ICRIC 2023), held on 26–27 October 2023 at the Central University of Jammu, India, and organized by the university’s Department of Computer Science and Information Technology. The book is divided into two volumes, and it includes the latest research in the areas of software engineering, cloud computing, computer networks and Internet technologies, artificial intelligence, information security, database and distributed computing, and digital India.