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Nota di contenuto	Heart Disease Healthcare Prediction Based on Enhanced Linear Support Vector Machine -- Exploring the Role of Multimodal People Analytics Platforms in Enhancing Human Resource Management Practices -- Enhanced Detection and Classification of Chronic Kidney Disease Using a Recurrent Neural Network Model -- A Game-based Learning approach of Google Interland -- Construction and Prediction of American Sign Language Using Deep Learning -- Comparative Study of Machine Learning and Deep Learning Models for Prediction and Detection of Forest Fire -- The photovoltaic in Moroccan buildings energy, environmental, economic and job creation forecast analyses -- Metamaterials for Performance Enhancement of THz Patch Antenna for 6G and Biomedical Applications -- The Prosthetic Hand: From Biomimetic Innovation to a Biorealistic Dynamic Approach -- Exploring Event Extraction A Survey of Approaches and Applications -- Forecasting Volatility with Machine Learning Case Study of the Dow Jones Industrial Average Index -- Implementation of a CPML layer using

FDTD method case of Electromagnetic Wave Propagation Isotropic Homogeneous Medium -- Pricing European Put Options Using Deep Neural Networks An Application of the Black Scholes Model -- Federated Learning for Intrusion Detection Opportunities and Challenges -- Decision Making Process Improvement Through the Internet of Behaviors and Digital Nudges Techniques for Financial Industry Customers -- Efficient Image Segmentation using Dominant Sets -- Comparative Performance Evaluation of Machine Learning Algorithms in Sentiment Analysis -- Enhancing Quality of Service in 5G/6G Networks Innovative Approaches -- Cryptocurrency price forecasting A comparative analy-sis of machine learning and deep learning methods -- Impact of Artificial Intelligence on the Informal Sector in Emerging Economies -- Hybrid model based on CNN-LSTM-AM with BiLSTM for short-term gold price prediction -- AI and Blockchain in IoT for a Robust Edge Based RFID Healthcare System -- Integration of Artificial Intelligence in Sales Funnels for Personalized Recommendations in E commerce -- Comparison between IPv4 and IPv6 in order to economize the energy for the Wireless Sensor Network -- AI Driven Optimization for Energy-Efficient Task Offloading in Mobile Edge Computing -- Integration of MQTT and CoAP Protocols in OneM2M for IoT Applications -- Vis-To-Nav: Visual Autonomous Navigation for Mobile Robots with a Limited Field of View -- A Robust RFID-Authentication Scheme using Elliptic Curve Cryptography for IoT-Healthcare Ecosystem -- Optimization of K Nearest Neighbors for Hematoma Prediction in Totally Implantable Venous Access Ports -- Delving into scientific utilization of Minecraft An overview -- Extreme gradient boosting and support vector regression for PV Energy forecasting case amorphous silicon grid connected PV system -- A state of the art of blockchain based image watermarking -- Machine Learning Boosting Techniques for Predicting TIVAP Obstructions -- Securing the Future of Healthcare Analyzing Cybersecurity Vulnerabilities for Confidentiality and Privacy in IoMT Devices -- Modeling Provincial Attractiveness A Clustering Approach to Regional Development in Morocco -- Optimizing the Vehicle Routing Problem in Solid Waste Management Using Artificial Intelligence -- Innovative Reinforcement Learning agent for HVAC Control in Residential Buildings A BOPTEST Evaluation -- Advanced Machine Learning for Cybersecurity A Robust Dataset and Evaluation of IDS Algorithms -- Overview of Biomedical Ontologies -- Computational Analysis of Human Locomotor patterns in Virtual Carpet Paradigm Using Ant Colony Algorithm -- Orwellian Odyssey Smart Borders and the Imperative for Explainability -- A novel method for generating Ultrasound Report Generation using A multi modal feature fusion -- Enhanced Facial Recognition using Parametrized ReLU Activation in Convolutional Neural Networks -- Exploring the Applications of the Internet of Things in Education and Training Innovations and Future Perspectives -- Smart environment and patient experience a systematic literature review -- Intelligent Systems in the Public Sector A Bibliometric Analysis of Trends, Themes, and Future Directions -- Enhancing Student Attendance Systems Using Palmprint Biometrics with EfficientNet and Vision Transformer Models -- Integration of Machine Learning Algorithms in Sentiment Analysis of Arabic Language on Social Media Study and Performance -- The Evolution of Teaching and Training in the Age of Artificial General Intelligence Opportunities, Challenges, and Ethical Considerations -- Load Frequency Control of a Microgrid Employing a Fuzzy PID Controller based Hybrid Algorithm Hpsogwo -- Machine Learning Based Approach for Railway Switch and Crossing System Diagnosis -- Modeling and Energy Study of a Photovoltaic Thermal (PV/T) -- A Novel

Wideband Four Ports MIMO Antenna For mm wave 5G Applications -- Optimal location of high/low voltage transformer stations by K Means method and scheduling of electric meters -- Advancements and Challenges in AI Driven Medical IoT Systems for Personalized Healthcare -- Leveraging Federated Learning for Detecting Fraud in Banking Systems -- A hybridized simulated annealing algorithm for solving the multi compartment vehicle routing problem with stochastic customers -- Integration of Multi Agent Systems in Intelligent Tutorial Systems -- Fine Tunning a French Language Model for Identifying Emergency Queries in Diabetes Chatbot -- Advancements in Cervical Cancer Diagnostic Using Deep Learning A State of the Art Review -- Enhancing IoT security with a Decentralized Collaborative Intrusion Detection System Using IPFS and Blockchain Technology -- Graph Convolutional Network for Link Prediction in Social Networks -- Deep Learning Based Sentiment Analysis of Coursera Reviews Using LSTM Neural Networks -- Modeling Water Quality Based on Environmental Factors in the Moulouya River Basin An Ensemble Learning Approach -- A Comprehensive Review of AI-empowered IoT services in 6G Networks, Emerging Technologies and Innovative Applications -- Alcoholic EEG Classification Multichannel FFT Image -- The Role of Artificial Intelligence in Shaping the Future of Business Operations -- Artificial intelligence and writing: trends and future directions in the social sciences -- ZigBee Wireless Sensor Network Design for Environmental Monitoring -- Artificial intelligence and its impact on the mental health field -- Industry 4.0 and Sustainable Development Evolving from Eco-friendly Economic Models to Digital Sustainability -- Deep Learning Based Classification of Diabetic Risk Using LSTM RNN Method -- A Hybrid Deep Learning Approach for Anomaly Detection in Big Data Environments -- A generic interest oriented recommender system framework -- Integration of Smart Sensors and Machine Learning for Enhanced Soil Health Monitoring in Precision Agriculture -- Machine Learning Techniques in Cloud Based Intrusion Detection -- Blockchain Technology in Forensic Evidence Management -- Enhanced lightweight encryption for energy efficiency and security in wireless Sensor networks -- Optimizing Hyperparameters for Fraud Detection A Comparative Analysis of Machine Learning Algorithms -- Intelligent systems for tourism development -- Digital Economy and Consumer Purchase Decisions in Retail Appliance Stores in Ecuador -- Encryption with Identity Based Approach for Versatile Encrypted Data Sharing in Public Cloud -- Cloud Infrastructure: Business Intelligent Systems with Machine Learning Techniques -- Blockchain Architecture Enhancing Security in Cloud Computing -- The use of immersive technologies and “serious games” in the context of professional training -- Crowd Anomaly Detection Using Convolution Neural Networks enhanced with Hyper Parameter Model -- Energy Efficient Spectrum Sensing and Detection of Byzantine Attacks in Cognitive Radio Networks Using Machine Learning -- Advancing Vehicle Detection YOLOv5 Innovations for Enhanced Transformation Systems -- Deep Learning based Face Authentication using Recursive Convolution Neural Network -- Blockchain Powered Solar Synergy Advancing Morocco's Renewable Energy Vision -- Evaluating CNN and Hybrid CNN LSTM Models for Arabic Handwritten Character Recognition -- Bricks charting and deep learning model for cryptocurrency forecasting -- Graph Based Matching for High Resolution Images Using SIFT Features and ML Metrics -- Fake Bot Detection on Social Media An eXplainable AI (XAI) Framework using DistilBERT -- Enhancing Handwritten Character Recognition Using a Hybrid SVM CNN Model -- A Fully Convolutional Neural Network Approach for Document Text Detection -- A Comparative Analysis of

Transformer Models for the Prediction of Arabic Punctuation -- Highlighting Real Time Information impact on passenger perception of bus service quality and satisfaction -- Solar Energy Prediction in Holy City of Mecca Using LSTM Enhanced with ICA, PCA, CSP, and DWT.

Sommario/riassunto

Offering a comprehensive exploration, this book navigates through foundational concepts to advanced applications, providing readers with a holistic understanding of how these domains intersect to create intelligent and responsive environments. The Intersection of Artificial Intelligence, Data Science, and Cutting-Edge Technologies: From Concepts to Applications in Smart Environments delves into the convergence of AI, data science, and innovative technologies within the realm of smart environments. Through a blend of theoretical insights and practical examples, the book illuminates the synergies between AI and data science, showcasing their pivotal roles in shaping the future of smart environments. From sensor technologies to machine learning algorithms, the text elucidates the mechanisms driving intelligence in these environments, while also delving into the ethical considerations and societal impacts of deploying such technologies. Whether you're a researcher, practitioner, or enthusiast in the fields of AI, data science, or smart environments, this book serves as a guiding beacon, offering valuable insights and methodologies to navigate the complexities of creating and optimizing intelligent environments for the benefit of society.