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| | Nota di contenuto | T5 Generator: An Aspect Based Analysis of Sentiments -- A Comprehensive Study to Predicting Unethical Activity in Videos through Deep Learning Techniques -- An IoT based Prototype for Water Quality Monitoring and Leak Detection (WQM-LD) Using Ensemble Voting Feature Selection Approach -- An Efficient approach towards heart disease using Machine Learning -- Vision based classification of human activities using 2D CNN and bidirectional LSTM -- Virtual Personal Assistant System Based on Speech Recognition Technology -- Enhanced Techniques for Feature Extraction to Improve Facial Expression Recognition -- Interpretable Drug Interaction Forecasting: Leveraging Graph Neural Networks with Explainable Artificial |

Intelligence -- An Innovative WGM-Segmented Dielectric Resonator-Based Mm-Wave All-Round Antenna -- Computer Auditory Imagination: A Multi-Model Approach for Audio to Video Synthesis -- Space-IoT using Unlimited lifetime 1U CubeSat-integrated Very High Stiffness and small size Fully Metallic Antenna -- Introducing AI Code Generators In Agile Software Testing -- Improving Machine Learning Models and Neural Network Performance in IoT Systems Using Gradient Descent Methods -- Lightweight Cryptography: Integrating Feedback DNA with the AES Algorithm for Enhanced Security -- Detection, Prevention and Mitigation of Cross Site Scripting Attacks -- Analysis of Hybrid Satellite Cooperative Communication Systems for SISO and MISO -- A Fine-Tuned EfficientNet B1 Framework for Multiclass Skin Cancer Classification -- Effective Strategies for Addressing Class Imbalance in identifying spam on Twitter -- Enhancing Travel Planning Through Data Visualization and Machine Learning -- Utilizing supervised machine learning techniques for predicting the loan approval status of bank customers -- A CNN framework for COVID identification using Radiographic Images -- Handwritten text recognition using Region Proposal Network (RPN) -- Uncertainty-Aware Molecular Property Prediction using Heterogeneous Molecular Graph Neural Networks -- Bridging the Gap - A Multimodal Communication System using Deep Learning -- Driver Alertness Monitoring Through Eye Blinking Patterns -- Alpha Blending Based Adaptive Color Image Watermarking Technique.

| Sommario/riassunto | The book presents the proceedings of the International Conference on Generative AI, Cryptography and Predictive Analytics (ICGCPA 2024), held at VIPS-TC, School of Engineering and Technology, Pitampura, Delhi, India, during June 28 – 29, 2024. It covers Generative AI's role in problem-solving, examining applications in image synthesis, content creation, healthcare, and optimization challenges. This book is a valuable resource for postgraduate students in various engineering disciplines. |