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Nota di contenuto	PV Array System Stimulation Affected By Variability in Temperature & Location -- A Real-Time Cataract Detection And Diagnosis Through Web-Based Imaging Analysis -- A Survey of Decentralized Digital Voting System using Blockchain Technology -- Multiple Infectious Disease Diagnosis and Detection using Advanced CNN Models -- Development of Indoor Autonomous Mobile BOT for Static Obstacle Avoidance -- Forest Fire Detection and Prediction using HSV and MLP -- An Insight into recent advances in the Intelligent Controller Methods -- Some Observations on Social Media Mining tools for Health Applications -- Smart Contact Lenses for Monitoring Patient's Vision : A Generic Review -- Liver lesion detection from MR T1 In-phase and Out-

phase Fused Images and CT Images using YOLOv8 -- Analyzing Blockchain Data to Detect Bitcoin Addresses Involved in Illicit Activities using Anomaly Detection -- Comparing Spring Boot and ReactJS with other Web Development Frameworks: A Study -- Performance Analysis of InceptionV3, VGG16, Resnet50 models for crevices recognition on surfaces -- A Machine Learning Approach for Moderating Toxic Hinglish Comments of YouTube Videos -- Instant Accident Detection and Emergency Alert System -- A Novel Approach to Video Summarization using AI-GPT and Speech Recognition -- Classification of Underwater Fish Species using Custom-Built Deep Learning Architectures -- Deep Learning Based Approach for Plant Disease Classification -- Prediction of liver disease using Machine Learning Algorithms -- Analysis of Detection of Glioma by Segmentation of Brain Tumor MRI images using Deep Learning -- CloneAI : A Deep Learning Based Approach for Cloned Voice Detection -- Analyzing the Performance and Wireless Network Capacity of NOMA: Study of the Impact of OMA and NOMA on 5G Network -- Malara Paraste Detecton Usng Deep Neural Networks -- IoT-based Agriculture: Identification and Classification of Apple Quality Using Deep Learning -- Plant Disease Detection on Edge Devices.-Analyze the Quality of Wine based on Machine Learning Approach -- Safeguarding financial transaction with Cryptocurrency -- Analysis and control of Dual Active Bridge Converter for Vehicle to load application in electric vehicle -- Efficient Plant Leaf Disease Detection using a Customized Convolutional Neural Network -- Analyzing and Predicting Temperature Trends in a Metropolitan Area Using Time Series Analysis and Machine Learning Techniques -- An Explainable AI (XAI) Based Framework for Detecting Diseases in Paddy Crops -- De-noising Tail Entity Selection in Automatic Question Generation with Fine-tuned T5 Model -- Hybridization of Artificial Gravity Cuckoo Search Algorithm with XGboost- Particle Swarm Optimized Neural Networks for Cardiac Feature Selection -- Urdu Sentiment Analysis: A Review -- Fir Filter Design Using Distributed Arithmetic With Lookup Tables (LUTs) -- Classification of Brain Tumour disease with Transfer learning using modified pre-trained deep convolutional neural network -- Bayesian Optimized Traffic Sign Recognition on Social Media Data Using Deep Learning -- Enhancing the Performance of PSO Algorithm for Clustering High dimensional data using Autoencoders -- Predicting Covid-19 Outbreaks: Leveraging Machine Learning and Deep Learning Models for Trend Analysis -- Stock Price Prediction using Sentiment Analysis on Financial News -- A modified self organizing map with mean-shift clustering for seismicity analysis of earthquake catalogs -- Adopting Blockchain Technology for Smart Farming and Food Security.

Sommario/riassunto	This book gathers outstanding papers presented at the International Conference on Data Science and Applications (ICDSA 2023), organized by Soft Computing Research Society (SCRS) and Malaviya National Institute of Technology Jaipur, India, from 14 to 15 July 2023. The book is divided into four volumes, and it covers theoretical and empirical developments in various areas of big data analytics, big data technologies, decision tree learning, wireless communication, wireless sensor networking, bioinformatics and systems, artificial neural networks, deep learning, genetic algorithms, data mining, fuzzy logic, optimization algorithms, image processing, computational intelligence in civil engineering, and creative computing.