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Nota di contenuto	The AI Renaissance: A New Era of Human-Machine Collaboration -- Age and Gender Estimation through Dental X-Ray Analysis -- Driver Drowsiness Detection System Using Machine Learning Techniques -- Facial Expression Recognition: Detection and Tracking -- Analysis and

Implementation of Driver Drowsiness, Distraction, and Detection System -- Object Detection and Depth Estimation using Deep Learning -- Optimizing Biomass Forecasting & Supply Chain: An Integrated Modelling Approach -- Prediction of Deposition Parameters in Manufacturing of Ni-based Coating using ANN -- Decision Model for Cost Control of Transmission and Transformation Projects Considering Uncertainty: a GAN Algorithm -- Optimization Model of Construction Period in Special Construction Scenarios of Power Transmission and Transformation Project Based on Back Propagation Neural Network -- Vision-Based Human Activity Recognition Using CNN & LSTM Architecture -- ML Based Rupture Strength Assessment in Cementitious Materials -- Investigation of Power Consumption of Refrigeration Model and its Exploratory Data Analysis (EDA) by using Machine Learning (ML) Algorithm -- Prediction of Emission Characteristics of Spark Ignition Engines with Premium Level Gasoline-Ethanol-Alkane Blends using Machine Learning -- Depression Detection Using Distribution of Microstructures from Actigraph Information -- ELECTRA: A Comprehensive Ecosystem for Electric Vehicles and Intelligent Transportation using YOLO -- Application of Recurrent Neural Network in Natural Language Processing, AI Content Detection and Time Series Data Analysis -- Story Generation using GAN, RNN & LSTM -- Analysis of Effectiveness of Indian Political Campaigns on Twitter -- Voice Enabled Form Filling Using Hidden Markov Models -- Bayesian Network Model based Classifiers are used in an Intelligent E-learning System -- Where You Think Stock Takes with the Linear Regression Model -- Analysis of Parent with Fine Tuned Large Language Model -- AI Content Detection -- Developing an Efficient Toxic Comment Detector using Machine Learning Techniques -- Handwritten English Alphabets Recognition System -- Stock Price Prediction using Time Series -- Multi-Featured Speech Emotion Recognition Using Extended Convolutional Neural Network -- Large Language Models for Search Engine Optimization in E-commerce -- Handwritten Equation Solver: A Game-Changer in Mathematical Problem Solving -- Unveiling the Next Frontier of AI Advancement -- Advancing Image Classification through Self-Teachable Machine Models and Transfer Learning -- Analysis Effect of K Values Used in K-Fold Cross Validation for Enhancing Performance of Machine Learning Model with Decision Tree -- The Forward-Forward Algorithm: Analysis and Discussion -- Texture Feature Extraction Using Local Optimal Oriented Pattern (LOOP) -- Feature Fusion and Early Prediction of Mental health using Hybrid Squeeze-MobileNet -- Exploring the Usability of Quantum Machine Learning for EEG Signal Classification -- Adaptive Coronavirus Mask Protection Algorithm Enabled Deep Learning for Brain Tumor Detection and Classification -- Enhancing Hex Strategy: AI Based Two-Distance Pruning Approach with Pattern-Enhanced Alpha-Beta Search -- IRBM: Incremental Restricted Boltzmann Machines for Concept Drift Detection and Adaption in Evolving Data Streams -- Revisiting Class Imbalance: A Generalized Notion for Oversampling -- Unveiling Efficiency: Loan Application Process Optimization Using PM4Py Tool.

Sommario/riassunto

The two-volume set CCIS 2053 and 2054 constitutes the refereed post-conference proceedings of the 13th International Advanced Computing Conference, IACC 2023, held in Kolhapur, India, during December 15–16, 2023. The 66 full papers and 6 short papers presented in these proceedings were carefully reviewed and selected from 425 submissions. The papers are organized in the following topical sections: Volume I: The AI renaissance: a new era of human-machine collaboration; application of recurrent neural network in natural language processing, AI content detection and time series data

analysis; unveiling the next frontier of AI advancement. Volume II: Agricultural resilience and disaster management for sustainable harvest; disease and abnormalities detection using ML and IOT; application of deep learning in healthcare; cancer detection using AI.