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EXCELLENCE

PYTHON

PROJECTS LIST

PLAN
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TEST
BUILD



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TECHNOLOGIES**



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PYTHON- PROJECTS LIST -2027

S.No	P.CODE	Project Title	Primary Domain
1	P2601	Agentic Intelligence for Unified Cyber Defense Across Cloud, Edge, and IoT Systems	Agentic AI / Cybersecurity
2	P2602	Balanced Multi-Source Transfer Learning for Fruit Quality Prediction With Limited Data	Agricultural AI
3	P2603	Machine Learning Framework for Large-Scale Behavioral Monitoring to Assess Thermotolerance in Dairy Cows	AgriTech / AI
4	P2604	AI and Machine Learning-Enabled Cognitive Digital Twin for Crime Hotspot Detection and Analysis	AI & Machine Learning
5	P2605	Artificial Intelligence and Machine Learning for Job Hazard Analysis: A Survey	AI & Machine Learning
6	P2606	Drivers' Psycho-Physiology Characteristics and Workload Identification in Prairie Highway Work Zones	AI / Transportation
7	P2607	Multi-Level Explainable AI for Predicting Student Depression Risk	AI in Education
8	P2608	Fuzzy Inference and Explainable AI for Mapping Academic Performance to Technical Demand	AI in Education / Fuzzy Logic
9	P2609	Smart Bio-Cyber Interface for Targeted Drug Delivery Based on Internet of Biological Nano-Things	Bioinformatics / Healthcare
10	P2610	Ensemble AI Framework for Real-Time Automatic Vehicle Detection and Classification	Computer Vision/ DL
11	P2611	A Novel Deep Learning Analysis in Detecting Urban Flood Objects for Faster Rescue Operations	Computer Vision / Disaster Management/DL
12	P2612	Toward an AI-Powered Software Pipeline for Real-Time Tracking and Analysis of Wildfire and Smoke	Computer Vision / Disaster Management/DL
13	P2613	Time-Aware Crime Prediction: A Multi-Output AI Framework for Operational Risk Prioritization	Crime Analytics / AI
14	P2614	Predicting Users' Privacy Protection Behavior in Mobile Applications	Cybersecurity/ Hybrid DL
15	P2615	Scalable Hybrid Online Machine Learning for Real-Time Intrusion Detection in Electric Vehicle Charging Systems	Cybersecurity/ Hybrid DL
16	P2616	CRISP: Cyber-Resilient Intelligent Systems for Predicting Threats in Digital Ecosystems	Cybersecurity/ Hybrid DL
17	P2617	A Hybrid Deep Learning Model for SQL Injection Attack Detection	Cybersecurity/ Hybrid DL
18	P2618	Vulnerability Management Chaining: An Integrated Framework for Efficient Cybersecurity Risk Prioritization	Cybersecurity/ Hybrid DL
19	P2619	E-Commerce Transaction Fraud Detection Using GNN-Based Feature Embedding and Machine Learning Methods	Cybersecurity / Fraud Detection/Hybrid DL
20	P2620	FraudFusion: A Multi-Modal Ensemble Framework for Anomaly-Based Fraud Detection in Retail POS Systems	Cybersecurity / Fraud Detection/Hybrid DL
21	P2621	An Integrated Data Engineering and Machine Learning Framework for Energy Prediction and Fault Detection in Smart Buildings	Data Science & IoT
22	P2622	GeoForensic-AI: A Lightweight and Explainable Forensic AI Framework for Modern Digital Ecosystems	Digital Forensics /DL
23	P2623	Adversarial Shadows in Digital Forensics: File Fragment Classification Vulnerabilities and Defenses	Digital Forensics/DL
24	P2624	Toward a Systematic Review of AI-Based Models for Predicting Academic Success in Higher Education	Educational Data Mining /AI
25	P2625	Prediction of Higher Education Achievement by Mining Patterns From Health Records and Socio-Economic Status	Educational Data Mining /DL
26	P2626	Explainable Artificial Intelligence in Environmental Monitoring	Environmental AI
27	P2627	Battery Modeling Techniques for State-of-Health and Remaining Useful Life Estimation	EV / Battery AI
28	P2628	MAC: Multiple-Source Autoencoder-Based Cyberattack Detection System for EV Charging Communications	EV Cybersecurity
29	P2629	Explainable Multi-Modal Fusion-Based Federated Learning for Mortality Prediction	Federated Learning / Healthcare
30	P2630	Dynamic Graph Convolutional Network With Temporal Aggregation for Corporate Bankruptcy Prediction	Financial AI

S.No	P.CODE	Project Title	Primary Domain
31	P2631	Machine Learning and Network Analysis for Cross-Border Suspicious Transaction Detection	Financial Crime Analytics
32	P2632	Deep Learning Approaches for Anti-Money Laundering on Mobile Transactions	FinTech / AI
33	P2633	CyberFluxAI: A GenAI Powered System for Rapid and Explainable Cybersecurity Incident Response	Generative AI / Cybersecurity
34	P2634	Drug and Dosage Recommendation Based on Explainable Generative AI Using Patient-Specific Modeling	Generative AI / Healthcare
35	P2635	A Data-Driven Framework for Vaccine Demand Forecasting and Inventory Simulation in a Hospital Travel Clinic	Healthcare AI
36	P2636	Explainable Multimodal Machine Learning Model for Predicting ICU Admission at Hospital Arrival	Healthcare AI
37	P2637	Explainable Machine Learning for Predicting Healthcare Workers' Emergency Preparedness	Healthcare AI
38	P2638	OBES-Net: Explainable Ensemble Framework for Robust Obesity Risk Prediction	Healthcare AI
39	P2639	Enhancing Detection of Anomaly-Based Intrusions in Smart Health Using Explainable AI	Healthcare Cybersecurity
40	P2640	Detection of Faulty Electrical Machines Based on Acoustic Signals in External Noise Environment Using Artificial Intelligence Algorithms	Industrial AI
41	P2641	AI-Driven Multimodal Arrival Time Prediction for Urban Autorickshaw and Bus Networks Using GPS Telemetry and DemandSupply Analytics	Intelligent Transportation Systems
42	P2642	Forensics and Deep Learning Mechanisms for Botnets in Internet of Things	IoT Cybersecurity
43	P2643	FairBail A Multimodal Framework for Fair Bail Prediction in the Indian Judicial Context Using Causal Auditing and Adversarial Debiasing	LegalTech / Responsible AI
44	P2644	WomenSafe: CNN-Vision Transformer Fusion Model for PCOS Diagnosis	Medical AI / Computer Vision
45	P2645	Evaluating Threats and Proposing Evidence-Based Recommendations for Mobile Digital Therapeutics Applications	Mobile Healthcare / Cybersecurity
46	P2646	Proactive Cyber Defense: User-Centric Risk Assessment in DNS Traffic Through Graph-Based Learning	Network Security / AI
47	P2647	Applying Deep Learning and Machine Learning for Detecting Gender Bias in Teaching Student Feedback Toward a Gender-Bias-Free University	NLP / AI in Education/DL
48	P2648	Explainable Hybrid Transformer-Based Feature Fusion Approach for Smishing Detection	NLP / Cybersecurity/DL
49	P2649	Accelerating Pharmaceutical Innovation Through AI: ML and DL Technologies for Drug-Drug Interaction Prediction	Pharmaceutical AI
50	P2650	Two-Stage Fault Diagnosis Model for Railway Wheel Defects With Random Forest and KDE-Based Data Augmentation	Railway AI / Machine Learning
51	P2651	FT-AFM: Hybrid Transformer-Factorization Framework for Interpretable Click-Through Rate Prediction	Recommender Systems / AI
52	P2652	OEF-LULC: Optimized and Explainable AI-Based Land Use Land Cover Classification	Remote Sensing / GIS
53	P2653	Smart Growth Strategies: ML Framework for Water and Energy Demand Forecasting in Urban Planning	Smart Cities / AI
54	P2654	Rethinking the Flow: A Canal-Based Machine Learning Approach to Urban Flood Detection	Smart City AI
55	P2655	An Intellectual Zero Trust Security Framework Using Deep Reinforcement Learning for Predictive Threat Mitigation in AI Based Fraud Detection Systems	Zero Trust / Cybersecurity

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56	P2501	Ad Click Fraud Detection Using Machine Learning and Deep Learning Algorithms
57	P2503	Job Demand Estimation Using Text Embeddings of Patent Classification Codes and Occupational Data
58	P2506	Machine Learning in Money Laundering Detection Over Blockchain Technology
59	P2507	Enhancing Social Media User's Trust: A Comprehensive Framework for Detecting Malicious Profiles Using Multi-Dimensional Analytics
60	P2509	Enhancing Fraud Detection in Banking With Deep Learning: Graph Neural Networks and Autoencoders for Real-Time Credit Card Fraud Prevention
61	P2512	FedGT: Identification of Malicious Clients in Federated Learning with Secure Aggregation
62	P2513	Customer Behavior Analysis and Predictive Modeling in Supermarket Retail: A Comprehensive Data Mining Approach
63	P2514	Context-Aware Embedded Language Transformers for Evaluating Climate Change-Based Sustainable Development Goals
64	P2516	Damage Detection Method for Road Ancillary Facilities Integrating Attention Mechanism
65	P2517	Machine Learning for Earthquake Emergency Evacuation: Site Selection and Neighborhood Navigation
66	P2518	Leveraging Machine Learning for Enhanced Bug Triaging in Open-Source Software Projects
67	P2520	XAI-Enhanced Machine Learning for Obesity Risk Classification: A Stacking Approach With LIME Explanations
68	P2521	Balancing Explainability and Privacy in Bank Failure Prediction: A Differentially Private Glass-Box Approach
69	P2522	Regional Weather Variable Predictions by Machine Learning with Near- Surface Observational and Atmospheric Numerical Data
70	P2523	DeepGuard: Enhancing Violence Detection in Smart Cities Through Deep Learning
71	P2526	Efficient Handling of Data Imbalance in Health Insurance Fraud Detection Using Meta-Reinforcement Learning
72	P2527	Deep-Learning Approach for an Analysis of Real-Estate Prices and Transactions
73	P2531	Dynamic Pricing Models in E-Commerce Exploring Machine Learning Techniques to Balance Profitability and Customer Satisfaction
74	P2533	A Machine Learning-Based Platform for Monitoring and Prediction of Hazardous Gases in Rural and Remote Areas
75	P2534	A Novel Hybrid Model for Credit Risk Assessment of Supply Chain Finance Based on Topological Data Analysis and Graph Neural Network
76	P2536	Enhancing Emergency Response in Road Accidents: A Severity Prediction Framework Using RF-RFE and Deep Learning Model
77	P2539	Early Prediction of Student Suspension and Dropout for Counseling Resource Optimization Using Multilayer Perceptron
78	P2548	Cyber Attack Prediction: From Traditional Machine Learning to Generative Artificial Intelligence
79	P2551	Machine Learning in Hospitality: Interpretable Forecasting of Booking Cancellations
80	P2563	GeoDisasterAINet: An Explainable Deep Ensemble Framework for Real- Time Urban and Rural Disaster Classification and Resilience
81	P2564	GoodFlight_ Goal-oriented Diffusion Model for Flight Trajectory Prediction
82	P2565	A Machine Learning Based Platform for Monitoring and Prediction of Hazardous Gases in Rural and Remote Areas
83	P2403	A Hierarchical Network-Based Method for Predicting Driver Traffic Violations
84	P2405	A Hybrid Network Analysis and Machine Learning Model for Enhanced Financial Distress Prediction
85	P2406	A Matching Algorithm with Reinforcement Learning and Decoupling Strategy for Order Dispatching in On-Demand Food Delivery
86	P2412	Artificial Intelligence Techniques for Landslides Prediction Using Satellite Imagery
87	P2417	Climate Change Impact on Agricultural Land Suitability: An Interpretable Machine Learning Based Eurasia Case Study

S.No	P.CODE	Project Title
88	P2419	Dark Side of the Web: Dark Web Classification Based on Text CNN and Topic Modeling Weight
89	P2420	Deep Convolutional Neural Network For Robust Detection Of Object-Based Forgeries In Advanced Video
90	P2421	DeepDiabetic: An Identification System of Diabetic Eye Diseases Using Deep Neural Networks
91	P2425	Driver Drowsiness Detection Based on Convolutional Neural Network Architecture Optimization Using Genetic Algorithm
92	P2428	Energy Demand Forecasting for Electric Vehicles Using Blockchain-Based Federated Learning
93	P2431	Financial Fraud Detection Using Value-at-Risk With Machine Learning in Skewed Data
94	P2436	Hybrid Machine Learning Model for Efficient Botnet Attack Detection in IoT Environment
95	P2437	Identifying Fraudulent Credit Card Transactions Using Ensemble Learning
96	P2438	Investigating Evasive Techniques in SMS Spam Filtering: A Comparative Analysis of Machine Learning Models
97	P2440	LRFS: Online Shoppers' Behavior-Based Efficient Customer Segmentation Model
98	P2441	Machine Learning Approach to Classification of Online Users by Exploiting Information Seeking Behavior
99	P2444	Multi-Modal Features Representation-Based Convolutional Neural Network Model for Malicious Website Detection
100	P2445	Online Recruitment Fraud (ORF) Detection Using Deep Learning Approaches
101	P2447	Optimizing Electric Vehicle Charging Considering Driver Satisfaction Through Machine Learning
102	P2449	PersoNet: A Novel Framework for Personality Classification-Based Apt Customer Service Agent Selection
103	P2459	Smart City Transportation: Deep Learning Ensemble Approach for Traffic Accident Detection
104	P2460	Social Media as a Mirror: Reflecting Mental Health through Computational Linguistics
105	P2462	Software Fault Prediction Using Cross Project Analysis A Study on Class Imbalance and Model Generalization
106	P2463	The Short Video Popularity Prediction Using Internet of Things and Deep Learning
107	P2464	Toward Multi-Modal Approach for Identification and Detection of Cyberbullying in Social Networks
108	P2465	Unveiling Vulnerabilities of Web Attacks Considering Man in the Middle Attack and Session Hijacking
109	P2494	Social Media Forensics: An Adaptive Cyberbullying-Related Hate Speech Detection Approach Based on Neural Networks With Uncertainty
110	P2495	Suspicious Human Activity Recognition From Surveillance Videos Using Deep Learning
111	P24103	An Effective Classification of DDoS Attacks in a Distributed Network by Adopting Hierarchical Machine Learning and Hyperparameters Optimization Techniques
112	P24123	Predicting University Student Graduation Using Academic Performance and Machine Learning
113	P24132	Food Texture Prediction Method Using Multiple Measurement and Template Data
114	P24134	Adaptive Feature Fusion Networks for Origin-Destination Passenger Flow Prediction in Metro Systems
115	P24136	Detection of Deepfake Videos Using Long Distance Attention
116	P24137	Fraud Detection in Banking Data by Machine Learning Techniques
117	P24141	Privilege Escalation Attack Detection and Mitigation in Cloud Using Machine Learning
118	P24148	Cyberattack Correlation and Mitigation for Distribution Systems via Machine Learning
119	P24150	Flood Forecasting Using Machine Learning Methods
120	P24151	Emotion Recognition and Management in the Tourism Industry During Emergency Events
121	P24152	Privacy-Preserving On-Screen Activity Tracking and Classification in E-Learning Using Federated Learning

S.No	P.CODE	Project Title
122	P24153	FEPP Advancing Software Risk Prediction in Requirements Engineering Through Innovative Rule Extraction and Multi-Class Integration
123	P24154	Machine Learning for Peatland Ground Water Level GWL Prediction via IoT System
124	P24155	Predicting Energy Demand Using Machine Learning: Exploring Temporal and Weather-Related Patterns, Variations, and Impacts
125	P24156	Enhancing Phishing Detection A Novel Hybrid Deep Learning Framework for Cybercrime Forensics
126	P24157	DeepHealthNet Adolescent Obesity Prediction System Based on a Deep Learning Frameworkworks
127	P24158	Comprehensive Review of Machine Learning,Deep Learning, and Digital Twin Data-Driven Approaches
128	P24159	Certifying Greenness Blockchains Impact on EcoFriendly Products in a Competitive Market
129	P24160	Breathing Rate Classification Using Piezoresistive Sensor Utilizing Continuous Wavelet Transform and Lightweight CNN
130	P24161	A New Data Science Model With Supervised Learning and Its Application on Pesticide Poisoning Diagnosis in Rural Workers
131	P24162	Assessing Data Breach Factors Through Modern Crime Theory: A Structural Equation Modeling Approach
132	P24163	Enhancing Medicare Fraud Detection Through Machine Learning: Addressing Class Imbalance With SMOTE-ENN
133	P24164	A Suspicious Financial Transaction Detection Model Using Autoencoder and Risk-Based Approach
134	P24165	Live Event Detection for People's Safety Using NLP and Deep Learning
135	P24166	Remaining Useful Life Predictor For Ev Batteries Using Machine Learning



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