

Python Final Year IEEE Projects 2025 – 2026

Machine Learning Projects, Artificial Intelligence Projects, Deep Learning Projects

Sl.No	Project Code	PYTHON IEEE 2025 – 2026 Project Titles	Domain	Lang/Year
1	JPPY2501	<u>Anomaly Detection in Network Traffic Using Advanced Machine Learning Techniques</u>	Machine Learning	Python / 2025
2	JPPY2502	<u>Bone Fracture Detection using Deep Learning</u>	Deep Learning	Python / 2025
3	JPPY2503	<u>Rice Varieties Identification using Deep Learning</u>	Deep Learning	Python / 2025
4	JPPY2504	<u>Enhanced Skin Disease Detection and Classification using Deep Learning</u>	Deep Learning	Python / 2025
5	JPPY2505	<u>Detection of Malnutrition in Children Through Visual Diagnosis of Pediatric Images Using Deep Learning</u>	Deep Learning	Python / 2025
6	JPPY2506	<u>Advanced Breast Cancer Detection using Deep Learning from Mammogram and Histopathological Images</u>	Deep Learning	Python / 2025
7	JPPY2507	<u>Real-Time Fruit Classification using Deep Learning via Web Interface for Automated Harvesting Applications</u>	Deep Learning	Python / 2025
8	JPPY2508	<u>Advanced Fake Job Post Prediction Using Machine Learning for Online Recruitment Scam Detection</u>	Machine Learning	Python / 2025
9	JPPY2509	<u>Optimized Electricity Bill Prediction Using Machine Learning Techniques</u>	Machine Learning	Python / 2025
10	JPPY2510	<u>Fruit Quality Detection using Deep Learning for Rotten and Fresh Fruits Classification</u>	Deep Learning	Python / 2025
11	JPPY2511	<u>Self-Reliant Medical Chatbot Using Machine Learning for Smart Intent Classification</u>	Machine Learning	Python / 2025
12	JPPY2512	<u>AI-Powered Alzheimer's Disease Detection using Deep Learning</u>	Deep Learning	Python / 2025
13	JPPY2513	<u>AI-Powered Android Malware Detection using Machine Learning</u>	Machine Learning	Python / 2025
14	JPPY2514	<u>Heart Failure Prediction using Machine Learning</u>	Machine Learning	Python / 2025
15	JPPY2515	<u>Traffic Prediction using Machine Learning</u>	Machine Learning	Python / 2025

16	JPPY2516	Advanced Fake Product Review Detection using Machine Learning	Machine Learning	Python / 2025
17	JPPY2517	AI-Powered Cattle Breed Recognition Using Deep Learning	Deep Learning	Python / 2025
18	JPPY2518	Online Exam Proctoring System using Deep Learning	Deep Learning	Python / 2025
19	JPPY2519	Machine Learning based Stress Detection Using Multimodal Physiological Data	Machine Learning	Python / 2025
20	JPPY2520	Advanced Brain Tumor Detection in MRI Images using Deep Learning	Deep Learning	Python / 2025
21	JPPY2521	Speed Bump Detection for Enhanced Driving Safety using Deep Learning	Deep Learning	Python / 2025
22	JPPY2522	Employee Salary Prediction using Machine Learning	Machine Learning	Python / 2025
23	JPPY2523	Detection of Fraud Scam Calls Using Machine Learning	Machine Learning	Python / 2025
24	JPPY2524	Machine Learning-Based Respiratory Disease Classification Using Lung Sounds	Machine Learning	Python / 2025
25	JPPY2525	Malicious and Phishing URL Detection Using Machine Learning	Machine Learning	Python / 2025
26	JPPY2526	Detection of Autism Spectrum Disorder in Children and Adults Using Machine Learning Techniques	Machine Learning	Python / 2025
27	JPPY2527	Fake Facebook Profile Detection Using Machine Learning	Machine Learning	Python / 2025
28	JPPY2528	Malaria Detection in Blood Smear Images using Deep Learning	Deep Learning	Python / 2025
29	JPPY2529	Smart Agriculture with AI for Crop Recommendation using Weather and Soil Content	ML & Deep Learning	Python / 2025
30	JPPY2530	Lung Cancer Detection and Classification using Deep Learning	Deep Learning	Python / 2025

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PYTHON IEEE Projects 2024– 2025

Sl.No	Project Code	PYTHON IEEE 2024 – 2025 Project Titles	Domain	Lang/Year
1	JPPY2401	Helmet and Number Plate Detection using Deep Learning	Deep Learning	Python / 2024
2	JPPY2402	Malware Analysis and Detection Using Machine Learning Algorithm	Machine Learning	Python / 2024
3	JPPY2403	Efficient Detection of Diabetic Retinopathy through Deep Learning	Deep Learning	Python / 2024
4	JPPY2404	Brain Stroke Detection System based on CT images using Deep Learning	Deep Learning	Python / 2024
5	JPPY2405	Oral Cancer Detection using Deep Learning	Deep Learning	Python / 2024
6	JPPY2406	SMS Spam Detection using Machine Learning	Machine Learning	Python / 2024
7	JPPY2407	Road Pothole Detection using Deep Learning	Deep Learning	Python / 2024
8	JPPY2408	Intelligent Weapon Detection System for Real Time Surveillance using Deep Learning with YOLOv8	Deep Learning	Python / 2024
9	JPPY2409	Yoga Pose Detection using Deep Learning	Deep Learning	Python / 2024
10	JPPY2410	Machine Learning based Employee Attrition Prediction and Layoff Prediction System	Machine Learning	Python / 2024
11	JPPY2411	Sleep Disorder Prediction Using Machine Learning	Machine Learning	Python / 2024
12	JPPY2412	E-Commerce Fraud Detection Based on Machine Learning	Machine Learning	Python / 2024
13	JPPY2413	Electric Vehicle (EV) Price Prediction using Machine Learning	Machine Learning	Python / 2024
14	JPPY2414	Smartphone Addiction Prediction Using Machine Learning	Machine Learning	Python / 2024
15	JPPY2415	Obesity Risk Prediction using Machine Learning	Machine Learning	Python / 2024
16	JPPY2416	Health Insurance Price Prediction using Machine Learning	Machine Learning	Python / 2024
17	JPPY2417	Smart Diabetes Prediction System Using Machine Learning Algorithms	Machine Learning	Python / 2024

18	JPPY2418	A System for Automated Vehicle Damage Localization and Severity Estimation Using Deep Learning	Deep Learning	Python / 2024
19	JPPY2419	Deep Learning based Blood Group Detection using Fingerprint	Deep Learning	Python / 2024
20	JPPY2420	Enhanced Breast Cancer Diagnosis Using Machine Learning on Patient Data and Deep Learning	Machine Learning / Deep Learning	Python / 2024
21	JPPY2421	Deep Learning-Based Dual-Modal Bird Species Identification Using Audio and Images	Deep Learning	Python / 2024
22	JPPY2422	Plant Disease Detection using Deep Learning and Fertilizer Recommendation	Deep Learning	Python / 2024
23	JPPY2423	Automated Knee Osteoarthritis Prediction and Classification from X-ray Images Using Deep Learning	Deep Learning	Python / 2024
24	JPPY2424	Cervical Cancer Prediction and Classification Using Deep Learning on Medical Image Data	Deep Learning	Python / 2024
25	JPPY2425	Fruit Quality Detection using Deep Learning for Rotten and Fresh Fruits Classification	Deep Learning	Python / 2024

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Python IEEE Projects 2023– 2024

Sl.No	Project Code	PYTHON IEEE 2023 – 2024 Project Titles	Domain	Lang/Year
1	JPPY2301	Blood Cancer Identification using Hybrid Ensemble Deep Learning Technique	Deep Learning	Python / 2023
2	JPPY2302	Breast Cancer Classification using CNN with Transfer Learning Models	Deep Learning	Python / 2023
3	JPPY2303	Calorie Estimation of Food and Beverages using Deep Learning	Deep Learning	Python / 2023
4	JPPY2304	Detection and Identification of Pills using Machine Learning Models	Deep Learning	Python / 2023
5	JPPY2305	Detection of Cardiovascular Diseases in ECG Images Using Machine Learning and Deep Learning Methods	Deep Learning	Python / 2023
6	JPPY2306	Development of Hybrid Image Caption Generation Method using Deep Learning	Deep Learning	Python / 2023

7	JPPY2307	Dog Breed Classification using Inception-ResNet-V2	Deep Learning	Python / 2023
8	JPPY2308	Forest Fire Detection using Convolutional Neural Networks (CNN)	Deep Learning	Python / 2023
9	JPPY2309	Digital Image Forgery Detection Using Deep Learning	Deep Learning	Python / 2023
10	JPPY2311	Kidney Cancer Detection using Deep Learning Models	Deep Learning	Python / 2023
11	JPPY2312	Medicinal Herbs Identification	Deep Learning	Python / 2023
12	JPPY2313	Monkeypox Diagnosis with Interpretable Deep Learning	Deep Learning	Python / 2023
13	JPPY2314	Music Genre Classification Using Convolutional Neural Network	Deep Learning	Python / 2023
14	JPPY2315	Pancreatic Cancer Classification using Deep Learning	Deep Learning	Python / 2023
15	JPPY2316	Prediction of Lung Cancer using Convolution Neural Networks	Deep Learning	Python / 2023
16	JPPY2317	Signature Fraud Detection using Deep Learning	Deep Learning	Python / 2023
17	JPPY2318	Skin Cancer Prediction Using Deep Learning Techniques	Deep Learning	Python / 2023
18	JPPY2319	Traffic Sign Classification using Deep Learning	Deep Learning	Python / 2023
19	JPPY2320	Disease Classification in Wheat from Images Using CNN	Deep Learning	Python / 2023
20	JPPY2333	Detection of Lungs Cancer through Computed Tomographic Images using Deep Learning	Deep Learning	Python / 2023
21	JPPY2321	A Machine Learning Framework for Early-Stage Detection of Autism Spectrum Disorders	Machine Learning	Python / 2023
22	JPPY2322	A Machine Learning Model to Predict a Diagnosis of Brain Stroke	Machine Learning	Python / 2023
23	JPPY2323	CO2 Emission Rating by Vehicles Using Data Science	Machine Learning	Python / 2023
24	JPPY2324	Cyber Hacking Breaches Prediction and Detection Using Machine Learning	Machine Learning	Python / 2023
25	JPPY2325	Fake Profile Detection on Social Networking Websites using Machine Learning	Machine Learning	Python / 2023
26	JPPY2326	Crime Prediction Using Machine Learning and Deep Learning	Machine Learning	Python / 2023
	JPPY2327	Drug Recommendation System in Medical Emergencies using Machine Learning	Machine Learning	Python / 2023

27			Learning	
28	JPPY2328	Efficient Machine Learning Algorithm for Future Gold Price Prediction	Machine Learning	Python / 2023
29	JPPY2329	Heart Disease Prediction With Machine Learning	Machine Learning	Python / 2023
30	JPPY2330	House Price Prediction using Machine Learning Algorithm	Machine Learning	Python / 2023
31	JPPY2331	Human Stress Detection Based on Sleeping Habits Using Machine Learning Algorithms	Machine Learning	Python / 2023

OTHER PYTHON IEEE PROJECTS

Python IEEE Machine Learning Project Titles

Sl.No	Project Code	Python IEEE Machine Learning Project Titles	Domain	Lang/Year
1	JPPY2223	Detection of Phishing Websites Using Machine Learning	Machine Learning	Python / 2022
2	JPPY2026	Predicting Stock Market Trends Using Machine Learning and Deep Learning Algorithms Via Continuous and Binary Data; a Comparative Analysis	Machine Learning	Python / 2020
3	JPPY2205	Electricity Theft Detection in Smart Grids Based on Deep Neural Network	Machine Learning	Python / 2022
4	JPPY2218	Intrusion Detection System Using Improved Convolution Neural Network	Machine Learning	Python / 2022
5	JPPY2021	Intrusion Detection System Using PCA with Random Forest Approach	Machine Learning	Python / 2020
6	JPPY2217	A Machine Learning-based Approach for Crop Yield Prediction and Fertilizer Recommendation	Machine Learning	Python / 2022
7	JPPY2230	InteliCrop: An Ensemble Model to Predict Crop using Machine Learning Algorithms	Machine Learning	Python / 2022
8	JPPY2103	Agricultural Crop Recommendations based on Productivity and Season	Machine Learning	Python / 2021
9	JPPY2107	Crop Recommender System Using Machine Learning Approach	Machine Learning	Python / 2021
10	JPPY2007	Crop Yield Prediction based on Indian Agriculture using Machine Learning	Machine Learning	Python / 2020
11	JPPY2224	Edible and Poisonous Mushrooms Classification by Machine Learning Algorithms	Machine	Python / 2022

			Learning	
12	JPPY2104	An Efficient Spam Detection Technique for IoT Devices Using Machine Learning	Machine Learning	Python / 2021
13	JPPY2219	Credit Card Fraud Detection Using State-of-the-Art Machine Learning and Deep Learning Algorithms	Machine Learning	Python / 2022
14	JPPY2228	Fraud Detection and Analysis for Insurance Claim using Machine Learning	Machine Learning	Python / 2022
15	JPPY2234	Fraud Detection on Bank Payments Using Machine Learning	Machine Learning	Python / 2022
16	JPPY2121	A Comparative Study on Fake Job Post Prediction Using Different Data mining Techniques	Machine Learning	Python / 2021
17	JPPY2116	WELFake: Word Embedding Over Linguistic Features for Fake News Detection	Machine Learning	Python / 2021
18	JPPY2108	Detecting Fake Reviews Using Multidimensional Representations With Fine-Grained Aspects Plan	Machine Learning	Python / 2021
19	JPPY2012	Detecting Spam Email With Machine Learning Optimized With Bio-Inspired Metaheuristic Algorithms	Machine Learning	Python / 2020
20	JPPY2033	Email Spam Detection Using Machine Learning Algorithms	Machine Learning	Python / 2020
21	JPPY2010	Defensive Modeling of Fake News Through Online Social Networks	Machine Learning	Python / 2020
22	JPPY2015	FAKEDETECTOR: Effective Fake News Detection with Deep Diffusive Neural Network	Machine Learning	Python / 2020
23	JPPY2030	Spam Review Detection Using the Linguistic and Spammer Behavioral Methods	Machine Learning	Python / 2020
24	JPPY1810	Review Spam Detection using Machine Learning	Machine Learning	Python / 2018
25	JPPY2214	A Deep Prediction of Chronic Kidney Disease by Employing Machine Learning Method	Machine Learning	Python / 2022
26	JPPY2225	Efficient Thyroid Disease Prediction using Features Selection and Meta-Classifiers	Machine Learning	Python / 2022
27	JPPY2229	Heart Disease Prediction using Machine Learning and Data Analytics Approach	Machine Learning	Python / 2022
28	JPPY2231	Liver disease prediction using Ensemble Technique	Machine Learning	Python / 2022
29	JPPY2232	Prediction of Parkinson's disease using XGBoost	Machine Learning	Python / 2022
30	JPPY2105	Chronic Kidney Disease Stage Identification in HIV Infected Patients using Machine Learning	Machine Learning	Python / 2021

31	JPPY2110	Diabetes Disease Prediction Using Machine Learning Algorithms	Machine Learning	Python / 2021
32	JPPY2113	Machine Learning Based Heart Disease Prediction System	Machine Learning	Python / 2021
33	JPPY2114	Naive Bayes Classifier for Predicting the Novel Coronavirus	Machine Learning	Python / 2021
34	JPPY2119	Primary Stage of Diabetes Prediction using Machine Learning Approaches	Machine Learning	Python / 2021
35	JPPY2001	A Machine Learning Methodology for Diagnosing Chronic Kidney Disease	Machine Learning	Python / 2020
36	JPPY2117	Drug Recommendation System based on Sentiment Analysis of Drug Reviews using Machine Learning	Machine Learning	Python / 2021
37	JPPY2006	COVID-19 Future Forecasting Using Supervised Machine Learning Models	Machine Learning	Python / 2020
38	JPPY2019	Heart Disease Identification Method Using Machine Learning Classification in E-Healthcare	Machine Learning	Python / 2020
39	JPPY2027	Prediction of Breast Cancer, Comparative Review of Machine Learning Techniques, and Their Analysis	Machine Learning	Python / 2020
40	JPPY2035	A New Intelligent Approach for Effective Recognition of Diabetes in the IoT E-HealthCare Environment	Machine Learning	Python / 2020
41	JPPY2222	Detection of Cyberbullying Using Machine Learning and Deep Learning Algorithms	Machine Learning	Python / 2022
42	JPPY2235	Toxic Speech Classification using Machine Learning Algorithms	Machine Learning	Python / 2022
43	JPPY2109	Detection of Cyberbullying on Social Media Using Machine learning	Machine Learning	Python / 2021
44	JPPY2034	Detecting A Twitter Cyberbullying Using Machine Learning	Machine Learning	Python / 2020
45	JPPY2008	Deep Learning Based Fusion Approach for Hate Speech Detection	Machine Learning	Python / 2020
46	JPPY2215	A Machine Learning Based Approach for Wine Quality Prediction	Machine Learning	Python / 2022
47	JPPY2216	Air Quality Prediction Based on Machine Learning	Machine Learning	Python / 2022
48	JPPY2237	Water Quality Classification Using SVM And XGBoost Method	Machine Learning	Python / 2022
49	JPPY2236	Traffic Accident Risk Prediction Using Machine Learning	Machine Learning	Python / 2022
50	JPPY2101	A Road Accident Prediction Model Using Data Mining Techniques	Machine	Python / 2021

			Learning	
51	JPPY2233	Prediction Of Used Car Prices Using Artificial Neural Networks And Machine Learning	Machine Learning	Python / 2022
52	JPPY2118	Predictive Analysis for Big Mart Sales Using Machine Learning Algorithms	Machine Learning	Python / 2021
53	JPPY2120	Prediction of Modernized Loan Approval System Based on Machine Learning Approach	Machine Learning	Python / 2021
54	JPPY2131	A Study on a Car Insurance Purchase Prediction Using Machine Learning	Machine Learning	Python / 2021
55	JPPY2017	Flight Delay Prediction Based on Aviation Big Data and Machine Learning	Machine Learning	Python / 2020
56	JPPY2002	Academic Performance Prediction Based on Multisource, Multifeature Behavioral Data	Machine Learning	Python / 2020
57	JPPY2024	Performance Analysis on Student Feedback using Machine Learning Algorithms	Machine Learning	Python / 2020
58	JPPY2031	Students Performance Prediction in Online Courses Using Machine Learning Algorithms	Machine Learning	Python / 2020
59	JPPY2102	A Systematic Review of Predicting Elections Based on Social Media Data	Machine Learning	Python / 2021
60	JPPY2106	COVIDSenti: A Large-Scale Benchmark Twitter Data Set for COVID-19 Sentiment Analysis	Machine Learning	Python / 2021
61	JPPY2111	Emotion Recognition by Textual Tweets Classification Using Voting Classifier (LR-SGD)	Machine Learning	Python / 2021
62	JPPY2013	Detection of Fake and Clone accounts in Twitter using Classification and Distance Measure Algorithms	Machine Learning	Python / 2020
63	JPPY2014	Detection of Malicious Social Bots Using Learning Automata With URL Features in Twitter Network	Machine Learning	Python / 2020
64	JPPY2016	Finding Psychological Instability Using Machine Learning	Machine Learning	Python / 2020
65	JPPY2020	Hybrid Feature based Prediction of Suicide Related Activity on Twitter	Machine Learning	Python / 2020
66	JPPY1916	Analysis and Prediction of Suicide Attempts	Machine Learning	Python / 2019
67	JPPY1801	A Comprehensive Study on Social Network Mental Disorders Detection via Online Social Media Mining	Machine Learning	Python / 2018
68	JPPY2112	Crime Type and Occurrence Prediction Using Machine Learning Algorithm	Machine Learning	Python / 2021
69	JPPY2005	Comparison of Machine Learning Algorithms for Predicting Crime Hotspots	Machine Learning	Python / 2020

70	JPPY2011	Detecting and Characterizing Extremist Reviewer Groups in Online Product Reviews	Machine Learning	Python / 2020
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Python IEEE Deep Learning Project Titles

Sl.No	Project Code	Python IEEE Deep Learning Project Titles	Domain	Lang/Year
1	JPPY2201	A Contemporary Technique for Lung Disease Prediction using Deep Learning	Deep Learning	Python / 2022
2	JPPY2208	Parkinson's Disease Detection Using Machine Learning	Deep Learning	Python / 2022
3	JPPY2209	Pneumonia Detection using Deep Learning	Deep Learning	Python / 2022
4	JPPY2123	Brain Tumour Detection Using Deep Learning	Deep Learning	Python / 2021
5	JPPY2124	Classification of Malaria-Infected Cells using Convolutional Neural Networks	Deep Learning	Python / 2021
6	JPPY2126	Diabetic Retinopathy Detection by means of Deep Learning	Deep Learning	Python / 2021
7	JPPY2127	Diagnosis of COVID-19 from Chest X-Ray Images Using Wavelets-Based Depthwise Convolution Network	Deep Learning	Python / 2021
8	JPPY2132	Melanoma Detection Using Convolutional Neural Network	Deep Learning	Python / 2021
9	JPPY2004	Artificial Intelligence and COVID-19: Deep Learning Approaches for Diagnosis and Treatment	Deep Learning	Python / 2020
10	JPPY2036	Malaria Detection using Deep Learning	Deep Learning	Python / 2020
11	JPPY2202	Automated Bird Species Identification using Audio Signal Processing and Neural Network	Deep Learning	Python / 2022
12	JPPY2213	Speech Emotion Recognition using Machine Learning	Deep Learning	Python / 2022
13	JPPY2204	Detection of Stress in IT Employees using Machine Learning Technique	Deep Learning	Python / 2022
14	JPPY2122	A Lightweight Convolutional Neural Network for Real-Time Facial Expression Detection	Deep Learning	Python / 2021

15	JPPY2133	Real-Time Drowsiness Identification based on Eye State Analysis	Deep Learning	Python / 2021
16	JPPY2032	A Mask Detection Method for Shoppers Under the Threat of COVID-19 Coronavirus	Deep Learning	Python / 2020
17	JPPY2037	Human Recognition using Ear based Deep Learning Features	Deep Learning	Python / 2020
18	JPPY2206	Fine-Grained Food Classification Methods on the UEC FOOD-100 Database	Deep Learning	Python / 2022
19	JPPY2207	Identification of Fake Indian Currency using Convolutional Neural Network	Deep Learning	Python / 2022
20	JPPY2210	Plant Disease Detection and Classification Using Machine Learning Algorithm	Deep Learning	Python / 2022
21	JPPY2211	Rice Leaf Disease Prediction Using Machine Learning	Deep Learning	Python / 2022
22	JPPY2212	Soil Analysis and Crop Recommendation using Machine Learning	Deep Learning	Python / 2022
23	JPPY2115	Potato Disease Detection Using Machine Learning	Deep Learning	Python / 2021
24	JPPY2134	Tomato Leaf Disease Identification by Restructured Deep Residual Dense Network	Deep Learning	Python / 2021
25	JPPY2028	Rice Leaf Diseases Classification Using CNN With Transfer Learning	Deep Learning	Python / 2020
26	JPPY2135	Traffic Sign Board Recognition and Voice Alert System using Convolutional Neural Network	Deep Learning	Python / 2021
27	JPPY2009	Deep Learning for Large-Scale Traffic-Sign Detection and Recognition	Deep Learning	Python / 2020
28	JPPY2130	License Plate Detection Methods Based on OpenCV	Deep Learning	Python / 2021
29	JPPY2128	Handwritten Digit Recognition Using CNN	Deep Learning	Python / 2021

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