



MACHINE LEARNING

Project Ideas/Titles

S.No	Title	Description
1	Sentiment Analysis	Build a model to analyze text sentiment (positive, negative, neutral) using datasets like movie reviews.
2	Stock Price Prediction	Predict stock prices using historical data and regression techniques.
3	Handwritten Digit Recognition	Create a classifier to recognize handwritten digits using the MNIST dataset.
4	Real-Time Face Detection	Develop a system that detects faces in real-time using OpenCV and ML models.
5	Fake News Detection	Use NLP techniques to classify news articles as real or fake.
6	Image Caption Generator	Build a model to generate captions for images using CNNs and RNNs.
7	Loan Default Prediction	Predict loan defaults based on customer profiles using classification algorithms.
8	Credit Card Fraud Detection	Detect fraudulent transactions using anomaly detection techniques.
9	Recommendation System	Create a recommendation system for movies, products, or music.
10	House Price Prediction	Predict house prices using regression models and features like location, size, and amenities.



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S.No	Title	Description
11	Chatbot for Customer Service	Develop an NLP-based chatbot to answer customer queries automatically.
12	Medical Diagnosis	Use ML models to predict diseases from symptoms or medical reports.
13	Traffic Sign Recognition	Build a system to recognize traffic signs using image classification techniques.
14	Weather Forecasting	Predict weather conditions using time-series data analysis.
15	Personal Expense Tracker	Build an ML-powered app to classify expenses and provide insights.
16	Speech Emotion Recognition	Create a model that identifies emotions from speech data.
17	Employee Attrition Prediction	Predict employee attrition based on organizational data.
18	Plagiarism Detection	Use text similarity algorithms to detect plagiarism in documents.
19	Spam Email Detection	Classify emails as spam or non-spam using Naive Bayes or other classifiers.
20	Social Media Sentiment Analysis	Analyze public sentiment about trending topics on social media platforms.



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S.No	Title	Description
21	Object Detection	Build an object detection system for real-world applications like surveillance or inventory management.
22	Music Genre Classification	Classify songs into genres based on audio features using ML models.
23	Plant Disease Detection	Identify plant diseases from images using deep learning techniques.
24	Road Lane Line Detection	Build a system to detect lane lines on roads for autonomous driving.
25	Retail Sales Prediction	Predict future sales for retail stores using historical data.
26	Customer Churn Prediction	Predict customer churn for businesses using transactional data.
27	Language Translation	Create a model to translate text between languages using neural machine translation.
28	Autonomous Vehicle Simulation	Develop an ML model to simulate basic decision-making for self-driving cars.
29	Fraud Detection in E-Commerce	Detect fraudulent activities on e-commerce platforms using user behavior patterns.
30	Virtual Personal Assistant	Create a basic virtual assistant capable of understanding and executing voice commands.



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S.No	Title	Description
31	Energy Consumption Forecasting	Predict energy usage in smart homes using IoT sensor data.
32	Fitness Activity Recognition	Build a system to recognize different physical activities from wearable sensor data.
33	Student Performance Prediction	Predict academic performance based on demographic and study behavior data.
34	Air Quality Index Prediction	Forecast air pollution levels using historical environmental data.
35	Fraud Detection in Banking	Use ML models to detect and prevent fraudulent transactions in the banking sector.
36	Online Ad Click Prediction	Predict the likelihood of a user clicking an online ad.
37	Food Recommendation System	Develop a personalized food recommendation system based on user preferences.
38	Forest Fire Prediction	Predict the likelihood of forest fires using meteorological data.
39	Traffic Volume Prediction	Forecast traffic congestion using historical traffic and weather data.
40	Autonomous Drone Navigation	Build a basic ML model to enable drones to navigate through environments autonomously.



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41	COVID-19 Case Prediction	Predict COVID-19 case trends using historical data and time-series analysis.
42	Fake Product Review Detection	Identify fake product reviews using sentiment analysis and NLP techniques.
43	Personality Prediction	Predict personality traits based on user behavior and text input.
44	Customer Segmentation	Use clustering techniques to group customers based on purchasing behavior.
45	Insurance Claim Prediction	Predict the likelihood of an insurance claim being filed based on customer data.
46	Diabetes Prediction	Predict the likelihood of diabetes using healthcare datasets.
47	Wildlife Species Identification	Identify animal species from images using computer vision.
48	Cybersecurity Threat Detection	Build an ML model to detect and classify cybersecurity threats.
49	Voice Recognition System	Develop a system to recognize users based on their voice patterns.
50	Automated Resume Screening	Create an ML system to screen resumes and rank candidates based on job descriptions.



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