🔍 Riddhi Gupta

Be a Creator !

100 AI PROJECTS

From Basics to AGI & Beyond

01 Foundations

Linear Regression for House Prices

Logistic Regression on Titanic Dataset

K-Means Clustering for Custome Segmentation

Decision Tree Classifier for Credit Risk

Random Forest on Breast Cancer Dataset

Naive Bayes Text Classifier

SVM for Handwritten Digit Recognition

PCA for Dimensionality Reduction

Build Your Own Gradient Descent from Scratch

Hyperparameter Tuning with GridSearchCV

Predict Stock Prices with LSTM

Predict Bike Rentals with Time-Series Models

Forecast Weather Using ARIMA

Predict Heart Disease with XGBoost

Image Classification with CNN (MNIST)

Voice Gender Classifier

Flight Delay Predictor

Student Grade Predictor with Linear Regression

Spam Detection with MultinomialNB

Fraud Detection with Isolation Forests

Anomaly Detection in Server Logs

Autoencoder for Noise Reduction

Clustering Movie Genres

Dimensionality Reduction with t-SNE

Self-Supervised Pretraining on Images

Semi-Supervised for Document Labeling

Outlier Detection in Financial Data

Gaussian Mixture for Speaker Identification

Hierarchical Clustering on E-commerce Data

Build a Recommender System (User-Based)

Sentiment Analysis with BERT

Text Summarizer with T5

Question Answering System

Email Spam Classifier

Resume Parser

Named Entity Recognition with spaCy

Semantic Search with Sentence Transformers

Zero-shot Text Classification

Chatbot using DialoGPT or RAG

Multilingual Translation Bot

Face Detection and Blur

Image Caption Generator

Object Detection with YOLOv8

Image Style Transfer (Neural Style)

License Plate Detection

OCR for Handwritten Notes

Plant Disease Classifier

Emotion Detection from Faces

Image Super-Resolution GAN

Satellite Image Segmentation

Math Reasoning Agent (ReAct)

Coding Bot with Tool Use

PDF Summarizer with Agents

AI Calendar Scheduler Agent

Self-Correcting Essay Grader

File Organizer Agent (Desktop AI)

Browser Agent with Memory

API Router with LLM

Recursive Research Agent

Cooking Assistant (Voice + Tools)

Speech-to-Text Converter

Text-to-Speech with ElevenLabs or Coqui

Language Identification from Audio

Sound Classification (UrbanSound8K)

Voice Cloning Mini Project

Real-time Audio Transcriber

Voice Emotion Classifier

Audio Keyword Spotting

Whisper + RAG Agent

AI Podcast Summarizer

Medical Diagnosis Support Tool

Insurance Claim Classifier

Drug Similarity Finder

Financial Forecasting Agent

AI Loan Eligibility Checker

Retail Sales Predictor

Customer Churn Predictor

Visual Price Tag Detection for Retail

Product Review Analyzer

Doctor-Patient Conversational AI

Deploy LLM on Streamlit + Ollama

Gradio App: Text Classifier

FastAPI for Model Inference

Create a Hugging Face Space

Build and Query Your Own Vector DB

Voice-enabled AI Web Assistant

Dockerize Your AI App

Build Local Document Q&A App

Create an AI CLI Tool

AI-Powered Resume Screener Web App

Build a Local AGI Agent with Memory + Tools

Quantum Circuit Classifier with Pennylane

Ethics-aware AI Chatbot (Rule-Constrained)

Red Team Your LLM with Adversarial Inputs

Model Cards + Datasheets Generator

BCI Signal Classifier (OpenBCI Data)

Simulated Society of AI Agents (LangGraph)

AGI Alignment Simulator

Build Your Own LLM Evaluation Suite

Design a Personal AI Manifesto