AARYA MEHTA

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CAREER OBJECTIVE

Motivated Computer Science and Engineering graduate with a strong foundation in Machine Learning, AI, and Python. Experienced in building ML-powered applications using LLMs like Llama, vector databases like ChromaDB, and deploying end-to-end solutions. Eager to contribute technical expertise and innovation in the development of next-gen automation and intelligence platforms.

EDUCATION

Bachelor in Computer Science and Engineering   July 2021 - Jun 2025

Navrachana University, Vadodara

- Relevant Coursework - Python programming, Artificial Intelligence, Machine Learning, Data Science, Data Analytics, Database SQL and MySQL

TECHNICAL SKILLS

Programming Languages: Python
Database: MySQL Workbench
Python libraries: NumPy, Pandas, Opencv, TensorFlow, Scikit Learn
Data Science: Data Analysis, Data Preprocessing, Feature Engineering, Statistical Modelling, Predictive Analytics, AI, Machine Learning
Data Visualization: Matplotlib, Plotly, Seaborn, Power BI

EXPERIENCES

Machine Learning Internship   Jan 2, 2025 – May 2, 2025

Spaculus Software

- ➤ SQL Query Generation Chatbot
  - Built a FastAPI-based chatbot that generates SQL queries for MySQL databases.
  - Integrated Groq API, Phidata Persistence Memory, and XAMPP MySQL for query storage and session management.
  - Developed a Team Agent Phidata for optimized BI query generation without storing chat history.
- ➤ Automated Invoice Data Extraction System
  - Developed a system using Azure Document Intelligence to extract structured data from invoices.
  - Implemented Ollama Agent to automate tax separation and categorize data into predefined columns.
  - Optimized the pipeline to process multiple PDFs at once and export results in Excel format.
- ➤ Vanna.AI Query System Implementation
  - Configured Vanna.AI locally with Ollama (Llama3.2 & Mistral-Nemo) and ChromaDB for query storage.
  - Trained and tested the model by asking custom and twisted questions to validate accuracy; manually cleaned and retrained the data to handle follow-up queries effectively
  - Integrated MySQL database for structured query responses and real-time API-based interactions.
- ➤ ML-Based Candidate Evaluation & Ranking System
  - Built an ML-powered Streamlit application for HRs to evaluate candidate CVs based on job description (JD); system scores resumes using criteria like qualification, skills, and experience, advancing only those above 45 to the assessment phase.
  - Integrated Groq API for assessment question generation based on JD; implemented secure candidate links, one-time submission logic with a 10-minute countdown timer, and email verification to ensure test authenticity.
  - Enabled dynamic features such as resume upload options (add or replace resume), assessment score visibility toggles for HR, real-time candidate ranking, and full database storage for JD, CVs, scores, and assessment results.

PROJECTS

Crop Recommendation App

- Developed an Android app for predicting soil properties by processing images captured via a webcam.
- Designed and implemented functionality to recommend suitable crop types based on soil analysis and weather conditions.
- Integrated APIs to fetch real-time weather conditions and plant disease data for enhanced recommendations.
- Technologies used: Python Libraries, Data Visualization, Machine Learning, APIs.
- Tools: Android Studio, Google Firebase.

Sentiment Analysis System

- Developed a robust sentiment analysis system to understand and interpret emotions expressed in text data.
- Technologies used: AI, Machine Learning, Natural Language Processing.
- Tool: Jupyter Notebook.