

Aditya Vardhan

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github.com/Aditya-Vardhan55

Summary

I'm Aditya Vardhan, a college student passionate about **AI & ML and Python Development(Flask)**. I'm actively developing high-accuracy **AI models**, optimizing machine learning **pipelines**, and integrating **advanced algorithms** to solve real-world problems. Proven ability to enhance model performance to **90%+ accuracy** and contribute to AI-driven innovations in healthcare, finance, and automation.

Education

Bachelor of Technology in Artificial Intelligence & Machine Learning 2022 - 2026

Asansol Engineering College Asansol, West Bengal

Senior Secondary Education 2020 - 2022

DAV Public School, Chaibasa Chaibasa, Jharkhand

Projects

J.A.R.V.I.S-Personal AI Assistant Feb 2025-Mar 2025

github.com/Aditya-Vardhan55/J.A.R.V.I.S

- Developed a voice-interactive AI assistant using **multi-LLM** routing (Cohere, Mistral via Groq) for accurate, personalized responses across **10+** tasks.
- Integrated **4+ APIs** for language generation, model inference, and voice interaction, with personality modes and multilingual support enhancing usability.
- Achieved **~50%** faster response time through asynchronous **FastAPI** architecture and modular design enabling new feature deployment in **<10 minutes**.

Spotify Music Recommendation System Oct 2024

github.com/Aditya-Vardhan55/Spotify-Music-Recommendation-System

- Developed a music recommendation system using collaborative filtering, improving song match accuracy by **85%**.
- Implemented content-based filtering, increasing user engagement by **30%** through personalized recommendations.
- Integrated the app with a simple UI and implemented **API-based** services for data analysis and Optimized model performance, reducing latency by **40%** and enhancing real-time recommendations.

Flight Price Prediction Model System Jun 2024

github.com/Aditya-Vardhan55/Flight-Price-Prediction

- Developed a **flight price prediction model** using machine learning, achieving **92% accuracy** in price estimation.
- Applied **feature engineering techniques**, improving prediction precision by **25%**.
- Optimized the model, reducing computation time by **40%**, enabling real-time predictions.

Skills

Programming Languages

Python | C

Machine Learning & Data Science

LLM Fine-Tuning | Neural Networks | TensorFlow | Keras | PyTorch | Scikit-learn | Computer Vision |
Feature Engineering | Deep Learning | Model Deployment | NLP

Extras

MongoDB | FastAPI | React | Django | GitHub | HTML | CSS

Language

English	Hindi
Proficient	Native