Kartik Bajaj

⊗ Portfolio   ⌗ github.com/kbxai   ☏ (+91) 98965-35933

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Summary

Data Science undergraduate at **IIT Madras** with hands-on experience in **machine learning, NLP, and LLM-based tools**. Strong background in **building ML pipelines**, performing **EDA, feature engineering, model training, and evaluation**, and deploying AI models via APIs. Proficient in **Python, Scikit-Learn, FastAPI**, and SQL databases. Seeking an **AI / ML Engineer Internship** to work on real-world data-driven and intelligent systems.

Projects

Bangalore House Price Prediction – ML Pipeline ⌗   **Python, Pandas, Scikit-Learn**
- Built an end-to-end ML pipeline including **EDA, feature engineering, preprocessing, and regression modeling**
- Applied **K-Fold Cross-Validation**, achieving $R^2 > 0.85$ with Gradient Boosting

Hotel Booking Cancellation Prediction – Supervised Learning ⌗   **Python, Pandas, Scikit-Learn**
- Developed a classification pipeline to **predict booking cancellations**
- Handled missing values, class imbalance using **SMOTE**, and model tuning
- Achieved **ROC-AUC ~0.92** with XGBoost and SHAP analysis

Movie Review Sentiment Analysis – NLP Pipeline ⌗   **Python, Scikit-Learn, NLTK**
- Built an NLP pipeline using **TF-IDF, n-grams, and Logistic Regression**
- Achieved **F1-score ~0.88** after tuning

LLM Deployment AI Agent ⌗   **FastAPI, OpenAI / Gemini API**
- Built an LLM-based backend service exposed via **REST APIs**
- Focused on **prompt-to-structured-output generation** and API integration

Education

Bachelor of Science in Data Science CGPA: 8.11 / 10	Indian Institute of Technology Madras	2024 – 2027
Higher Secondary Certificate (Class XII) Grade: 9.0	S.A. Jain Senior Model School	2023 – 2024

Skills

Programming Languages: Python, SQL, JavaScript
Machine Learning: Supervised Learning, NLP, Feature Engineering, Model Evaluation
Frameworks & Libraries: Scikit-Learn, XGBoost, NLTK
LLM Tools: OpenAI API, Gemini API
Backend for ML: FastAPI, REST APIs
Databases: SQLite, PostgreSQL
Developer Tools: Git, GitHub, Linux, VS Code, Jupyter Notebook

Availability

- Open to **AI Engineer / ML Engineer Internships**
- Comfortable with **research-oriented or applied ML roles**
- **Immediate joiner**
- Open to in-person or hybrid opportunities