

Kartik Bajaj

✉ Portfolio
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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 **R² > 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

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Summary

Data Science undergraduate at **IIT Madras** with hands-on experience in **full-stack web development and AI/ML systems**, built as **separate end-to-end projects**. Strong in **Python backend development (Flask, Django, FastAPI)**, REST APIs, and database-driven applications, along with experience in **machine learning and LLM-based tools**. Seeking an **AI Full Stack Engineer Internship** to build intelligent applications by combining backend systems with AI capabilities.

Projects

LLM Deployment AI Agent ↗	FastAPI, OpenAI / Gemini API, GitHub Automation
<ul style="list-style-type: none">Built an AI service that converts natural language prompts into deployable HTML applicationsImplemented REST APIs to generate structured outputs instead of raw textAutomated GitHub repository creation, commits, and deploymentsWorked with asynchronous task handling and third-party API integrations	
SmartParkr: Vehicle Parking Management App ↗	Python, Flask/Django, SQL, HTML, CSS, JavaScript
<ul style="list-style-type: none">Developed a full-stack parking management system with user authentication and role-based accessImplemented backend logic for parking slot availability, booking workflows, and validationsDesigned a normalized relational database schema for users, slots, and bookingsBuilt admin-level dashboards for managing parking data and system recordsFocused on clean backend architecture, data integrity, and maintainable APIs	
Bangalore House Price Prediction – ML Pipeline ↗	Python, Pandas, Scikit-Learn
<ul style="list-style-type: none">Built an end-to-end ML pipeline including EDA, feature engineering, and preprocessingApplied K-Fold Cross-Validation, achieving R² > 0.85 with Gradient Boosting	
Movie Review Sentiment Analysis – NLP Pipeline ↗	Python, Scikit-Learn, NLTK
<ul style="list-style-type: none">Implemented a text classification pipeline with TF-IDF and Logistic RegressionAchieved F1-score ~0.88 after hyperparameter tuning	

Education

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

Skills

Programming Languages: Python, JavaScript, SQL, Java
Backend Development: Flask, Django (basics), FastAPI, REST APIs, Authentication
Frontend Development: HTML, CSS, JavaScript, Vue.js, Bootstrap
AI / ML: Scikit-Learn, NLP, Feature Engineering, Model Evaluation
LLM Tools: OpenAI API, Gemini API
Databases: SQLite, PostgreSQL, SQL/MySQL
Developer Tools: Git, GitHub, Linux, VS Code, Jupyter Notebook

Availability

- Open to **AI Full Stack Engineer / Backend Internships**
- Comfortable with **training-based or learning-oriented roles**
- Immediate joiner**
- Hybrid/Remote