Brahm Dev

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EDUCATION

VIT Bhopal University — Oct 2022 – Present
B.Tech. in Computer Science and Engineering — CGPA: 7.91/10 — Bhopal, MP

TECHNICAL SKILLS

- **Programming Languages**: Python, C++, SQL

- **Deep Learning Frameworks**: TensorFlow, Keras, PyTorch

- **Tools & Libraries**: Scikit-learn, NumPy, Pandas, Matplotlib, MySQL, Git, GitHub, Jupyter Notebooks, Kaggle

- **Languages**: Fluent in English and Hindi

- **Data Structures & Algorithms**: LeetCode (300+ problems), GitHub (150+ independent problems)

PROJECTS

FlanQuery: AI-Powered Q&A System — Jun 2025 – Aug 2025
RAG Chatbot with Flan-T5 Project — *Python, LangChain, Hugging Face, PyTorch, FAISS*

- Orchestrated an end-to-end Retrieval-Augmented Generation (RAG) system that answered complex user queries with over **90% factual accuracy**, leveraging the Flan-T5-Large model to effectively eliminate model hallucinations.

- Engineered a scalable data ingestion pipeline using LangChain to process a knowledge base of **50+ PDF documents**, programmatically splitting them into over **2,000 optimized text chunks** for vector embedding.

- Implemented a high-performance FAISS vector database that slashed query retrieval times to under **500 milliseconds**, boosting the relevance of context provided to the language model by over **40%**.

- Developed and deployed a fully interactive conversational AI, successfully processing user prompts and ensuring **100%** of the generated answers were grounded in the source documents.

RealtyPrice Predictor: Real Estate Valuation System — Aug 2024 – Sep 2024
Machine Learning Project — *Python, Scikit-learn, NumPy, Pandas, Seaborn*

- Orchestrated a comprehensive data preprocessing workflow for a raw dataset of over **5,000** property listings, implementing one-hot encoding for categorical variables and feature scaling to normalize the data, which collectively improved model convergence by **15%**.

- Systematically evaluated multiple regression models, including Linear, Lasso, and Ridge, to identify the most effective algorithm for price prediction.

- Achieved a peak predictive performance with an **R-squared value of 0.88** and a low Mean Absolute Error of **$15k** using a Gradient Boosting Regressor, which was optimized through extensive hyperparameter tuning with GridSearchCV.

- Delivered a powerful decision-support tool for market valuation, leveraging feature importance analysis to identify the top 5 price-driving factors (e.g., square footage, location) and provide transparent, data-backed insights to stakeholders.

CO-CURRICULARS

ML Team Lead – AI Club, VIT Bhopal — Dec 2023 – Feb 2025
Student Developer Clubs — Bhopal, MP

- Spearheaded the club's flagship project, an AI-powered campus navigation chatbot, leading a team of 8 students through the entire development lifecycle from data collection to deployment.

- Designed and conducted a 6-week workshop series on "Applied Data Science with Python," mentoring 200+ students and increasing active participation in club projects by 50%.

Open Source Contributor, Hugging Face – Contributor — Jun 2024 – Sep 2024
Open Source Program

- Enhanced the official documentation for the T5 and BART models by adding new code examples and clarifying complex parameters, improving developer experience for a library with millions of users.

- Submitted 4 pull requests that passed rigorous code reviews from the core maintenance team, collaborating via GitHub to successfully merge all contributions into the main library.

CERTIFICATIONS

- **Oracle AI Foundations Associate Certificate**: Completed a comprehensive curriculum covering core Machine Learning principles, Generative AI, Natural Language Processing, and the application of Oracle Cloud Infrastructure (OCI) AI services.