Aarohi Dharmadhikari

Final Year | BTech. Artificial Intelligence and Data Science | IIT JODHPUR
b22ai001@iitj.ac.in | +91-7028111533 | aarohi.july@gmail.com
Github: ⓞ | LeetCode: </> | LinkedIn: in

EDUCATION

IIT JODHPUR
BTech. in Artificial Intelligence and Data Science
CUMULATIVE GPA: 7.72 / 10.0
MAY 2026 | RAJASTHAN, INDIA

ADITYA JUNIOR COLLEGE, PUNE, MAHARASHTRA
May 2022 | CLASS 12 | 86.17%

D.A.V. PUBLIC SCHOOL, PUNE
May 2020 | CLASS 10 | 97.2%

SKILLS

LANGUAGES
Python • SQL •
C++/C • C# • Javascript • LaTeX

TOOLS & TECHNOLOGIES
Git • GitHub • Jupyter Notebook •
Google Colab • Docker • Linux •
Windows • VSCode • Vector DBs

LIBRARIES/FRAMEWORKS
Object-Oriented Programming(OOP)
• Pandas • Numpy • Scikit-learn •
PyTorch • Keras/Tensorflow •
Matplotlib • Seaborn • PyG • RAG •
Flask • LangChain

COURSEWORK

UNDER-GRADUATE
Pattern Recognition and Machine
Learning
Deep Learning
Artificial Intelligence
Data Engineering
Data Structures and Algorithms
Operating Systems
Computer Architecture
Optimization in Machine Learning
Design and Analysis of Algorithms
Data Visualization
Probability Statistics & Stochastic
Processes
Mathematics for Computing
Computer Graphics
Autonomous Systems

EXPERIENCE

FUJITSU CONSULTING INDIA PVT. LTD. | AI/ML Internship
May 2025 -- July 2025 | Pune, Maharashtra

- Engineered a **LangChain-powered Retrieval-Augmented Generation (RAG) pipeline** for querying large-scale Excel and PDF datasets; implemented efficient **chunking, embedding, and retrieval mechanisms**, and benchmarked performance using the **RAGAS framework**, achieving **74% accuracy**.
- Built and deployed an **AI-driven Conversational Chatbot** leveraging the RAG pipeline for **automated, context-aware Q&A**, significantly reducing internal query resolution time by **90%**.

PROJECTS

CLIP-VQA | Undergraduate Student Researcher   ⓞ
May 2024 -- May 2025 | Tech Stack: LLMs, ViViT, BERT, LoRA, PyTorch, GPUs

- **Awaiting publication** at **CVIP 2025** as **Single Authorship** for developing a multimodal video-scoring system for diving performance via **video-text fusion**.
- Designed a **cross-attention contrastive framework** integrating **ViViT** and **BERT** (LoRA fine-tuned), achieving **Spearman Rank Correlation of 0.54** and **MSE of 80.32** on the **MIT-UNLV Diving Dataset**.

TWITTER SENTIMENT ANALYSIS | Course Project   ⓞ
Mar 2024 -- Apr 2024 | Tech Stack: SVM, Random Forest, Naive Bayes, Logistic Regression, Perceptron, PCA, LDA, TF-IDF, BERT Tokenizer

- Developed a **machine learning-based sentiment analysis pipeline** for over **30k tweets**, comparing traditional classifiers such as **Decision Tree, Random Forest, SVM, Naive Bayes, Perceptron, and Logistic Regression**.
- Applied advanced **text preprocessing, tokenization (TF-IDF, BERT Tokenizer)**, and **dimensionality reduction (PCA, LDA)** to enhance model performance, achieving a peak **accuracy of 71.5%** using TF-IDF features.

GOLD PRICE PREDICTION | Course Project   ⓞ
Oct. 2024 -- Nov. 2024 | Tech Stack: Python, Firebase, Flask, React, ML

- Assembled an end-to-end **pipeline** to collect and preprocess **10.5k gold price–sentiment records** in **Firebase** using **NLP-based sentiment extraction**.
- Compared **Random Forest** and **Linear Regression** models, achieving **79.3% accuracy** and deploying results via a **Flask–React app**.

ACHIEVEMENTS

- Among **Top 3** in 150+ students chosen for 3-month **DRDO Student Assistantship** (Feb. 2025 – Apr. 2025)
- Solved **450+ DSA problems** on Leetcode, GFGPractice and CodeChef, earned a **Silver Badge** on **Leetcode**
- Led **IIT Jodhpur to QuarterFinals** in women's basketball in Inter IIT Sports, Kanpur (2024)

POSITIONS OF RESPONSIBILITY

- **Vice Captain**, Basketball Society, IIT Jodhpur   Dec. 2024
- **Junior Executive**, E-Cell (Entrepreneurship Cell), IIT Jodhpur   2022 – 23