Atharva Atterkar

Final-year Computer Science & Engineering (AI) Undergraduate

Github LinkedIn ✉ atharva.atterkar1912@gmail.com 📞 +91 9588471235 LeetCode

WORK EXPERIENCE

AI Software Development Intern   **Jun 2024 - Dec 2024**
Eduplus Campus, Pune
Worked on a **sponsored** project focused on student attention detection using advanced technologies.

COMMUNITY

Associate Finance Head   **Jun 2023 – May 2024**
Geeks for Geeks VIIT, Pune
Managed club finances and secured **5+** major sponsors for our flagship event, GeekVishwa (gfgviit.tech).

PROJECTS

Student Classroom Attention Detection Using Image Processing and EEG Signals   Github
- Developed a **real-time attention monitoring system** that tracks student focus using **image processing techniques** and **EEG signal analysis**.
- Implemented **CNN-based facial emotion detection** in conjunction with a **Flask** web application for real-time image processing.
- Utilized **Mindlink EEG headband sensor** to capture and analyze student attention levels, integrating this data for enhanced accuracy and insights.

Mental Health Chatbot using RAG, LangChain, and AstraDB   GitHub
- Built an AI-powered mental health chatbot using a **RAG** pipeline with **LangChain** and **Groq LLMs** for empathetic, context-aware responses.
- Integrated **AstraDB** using **Cassio**, and embedded data using **HuggingFace sentence-transformers**.

Enhanced Driver Safety System Using Machine Learning   Github
- Developed a system to detect **driver drowsiness** to improve road safety using **Inception V3** and **VGG16 models**.
- Used **machine learning** techniques to analyze eye states and alert the driver during periods of drowsiness.

Superstore Sales Analysis Dashboard using Power BI   Live
- Provided interactive insights into sales performance, product trends, and customer segmentation.

EDUCATION

2022 - 2026	**B.Tech Computer Science & Engineering (AI)** Vishwakarma Institute Of Information Technology, Pune
2020 - 2022	**Higher Secondary Schooling** The Jain International School, Aurangabad

SKILLS

Programming Languages	Python, SQL, Java
Machine Learning	Regression, Classification, Ensembles, Tuning, Scikit-learn
Deep Learning & CV Tools	TensorFlow, PyTorch, YOLO, CNN, OpenCV, NumPy, Pandas
LLM & GenAI Tools	LangChain, HuggingFace, Groq API, Lamini, LoRA, QLoRA
Vector Databases	FAISS, ChromaDB, AstraDB
Cloud/Data Platforms	AWS (S3, IAM), Snowflake, Azure
Frontend Technologies	HTML, CSS, JavaScript
Backend Technologies	Flask, MongoDB
Soft Skills	Analytical Thinking, Problem-solving, Teamwork

ACHIEVEMENTS

- **Winner** of the **Hack-Sphere 24hrs Hackathon**, organized by **Firmway**, for solving the problem statement Intelligent Partial Invoice Matching.

- Honored with **Best Paper Award** for Drowsy Driver Detection System at **IEEE ICBDS 2024** Conference.

- Published **Cureus Journal** article: "Student Classroom Attention System Using AI and Sensors."