

Vedant Kolhapure

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Summary

AI and Data Science student who builds things that actually get used. From a production Fitness CRM serving real clients to a RAG-based study companion, I gravitate toward projects where AI solves a concrete problem. Comfortable across the stack from training models and designing pipelines to wiring up backend and shipping interfaces.

Education

B.Tech in Artificial Intelligence and Data Science 2023 – 2027
DY Patil Institute of Engineering, Management and Research, Akurdi, Pune
Savitribai Phule Pune University CGPA: **8.6 / 10**

Experience

Full Stack Web Development Intern Jan 2026 – Apr 2026
Tinfosystem, Pune

- Designed and deployed a **production-ready Fitness CRM web application** for a real client using **HTML, CSS, JavaScript, PHP, and SQL**; application is actively used in production.
- Engineered end-to-end full-stack features including user authentication, client progress tracking, and database management, reducing manual record-keeping for the client.
- Implemented **SEO and Generative Engine Optimization (GEO)** strategies for AISSMS College, Pune, improving search visibility through structured content and metadata optimization.

Projects

UniMate AI: AI-Powered Study Companion Live Demo

- Developed an AI study assistant for university exam preparation, supporting **5 core engineering subjects** with conversational Q&A and contextual memory.
- Built a **Retrieval-Augmented Generation (RAG)** pipeline using **FAISS, LangChain, and HuggingFace** to enable accurate, textbook-grounded answers from uploaded PDFs.
- Integrated automatic web search fallback when textbook context was insufficient, improving answer coverage by handling out-of-syllabus queries.
- Shipped features including AI-generated quizzes, previous-year question analysis, PDF upload, and chat export, delivering a complete exam-prep toolkit.

NewsGist: AI-Powered News Summarization Platform GitHub

- Built an NLP-based web application that fetches real-time news via external APIs and generates concise, structured article summaries automatically.
- Implemented **sentiment analysis** to classify the emotional tone of articles, enabling users to gauge news bias and emotional framing at a glance.
- Automated end-to-end content ingestion and processing pipeline, reducing manual reading time for users.

MindPulse: Epileptic Seizure Detection Web App GitHub

- Built a web application that predicts epileptic seizures from EEG brain signals, combining signal processing, ML, and a deployed frontend into a complete end-to-end system.
- Trained an SVM classifier on EEG data, achieving **97%** classification accuracy through careful feature engineering and hyperparameter tuning.
- Applied normalization and PCA to reduce feature dimensionality by **40%**, improving model efficiency without sacrificing predictive performance.
- Deployed the model via a **Flask** backend integrated with an HTML, CSS, and JavaScript frontend, making the prediction pipeline accessible through a browser interface.

Technical Skills

Programming: Python, C++, SQL, PHP

Machine Learning: Supervised & Unsupervised Learning, Model Evaluation, Hyperparameter Tuning, Scikit-learn, TensorFlow

NLP & LLMs: Natural Language Processing, Large Language Models (LLMs), RAG, LangChain, FAISS, HuggingFace, Prompt Engineering, LLM Fine-tuning

Frameworks & Tools: FastAPI, Flask, Django, Streamlit, Git, GitHub, Power BI

Web Development: HTML, CSS, JavaScript

Data Analysis: Pandas, NumPy, Matplotlib, Seaborn, Data Visualization

Activities & Leadership

Computer Society of India (CSI) — Event Coordinator 2024–2025

- Organized a campus-wide coding contest to promote competitive programming; coordinated logistics, problem curation, and participant registration.

Rotaract Club — Event Coordinator 2024–2025

- Led coordination for an inter-college debate competition, managing scheduling, judging panels, and cross-college communication for **multiple participating institutions**.
- Volunteered in community service activities during Krishna Janmashtami celebrations.