Om Aryan

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About Me

Passionate software developer with a knack for creating innovative solutions and a demonstrated ability to swiftly master new technologies. Proficient in **Java** and **Python**, I excel at leveraging these tools to tackle complex real-world problems and deliver impactful results.

Experience

- **Backend Developer Intern** — *October 2024 - Present*
  Remote — IIT Bombay
  - Engineered a robust backend system from scratch, enabling seamless user registration and secure OTP authentication, supporting mulitple model architectures.
  - Integrated dynamic PDF generation and **LDAP** authentication, streamlining document processing. Optimized ML model inference speed by **20%** through multithreading.
  - Technologies Used: **Python, Django, Django REST Framework, Sqllite, PyTorch, YOLO, Docker**

Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	RCOEM, Nagpur	9.08 (Current)	2022-Present
Senior Secondary	CBSE Board	72.0%	2022
Secondary	CBSE Board	92.8%	2020

Skills

- **Languages**: Java, Python, C
- **Frameworks**: Django, Langchain, Spring*, TelegramBots, FastAPI
- **Data Science Tools**: Tensorflow, Pytorch, Scikit-learn, NumPy, StreamLit, Pandas, Matplotlib, PowerBI, Tableau
- **Deployment**: Docker, Amazon Web Services(**AWS**)
- **Database Systems**: OracleDB*, MySql, Pinecone, ChromaDB
- **Web Tools**: HTML, CSS, JavaScript, Beautiful Soup, SvelteKit
- **Version Control System**: Git
- **Operating Systems**: Linux, Windows   ** Elementary proficiency*

Projects

- **Bio Insight Pro** — *December 2024 - Present*
  Transformers, Django, React, Docker
  - Built a context-aware application to analyze semantic similarity between medical research documents using custom cosine similarity on **BioBERT** embeddings, enhanced with a RAG pipeline for explainability.
  - Optimizing model inference and embedding generation for LLMs.
  - Dockerized the project for seamless deployment.
- **DocAnalyzerAI** — *July 2024*
  LangChain, SpringBoot, SvelteKit, Streamlit — GitHub
  - Constructed a **RAG** pipeline to analyze documents using an LLM, supporting over 3 file formats
  - Developed an interface using Svelte.js and Spring Boot for handling file uploads
- **LocomotiveDataAPI** — *June 2024*
  Django REST Framework, Beautiful Soup — GitHub
  - Built **RESTful** API for Indian Locomotives by scraping data from Wikipedia of **80+** locomotives
  - Added **JWT** Authentication to make secure endpoints

Certification

- **Introduction to Generative AI**: Duke University (Coursera) — *October 2024*
- **Network Basics**: Cisco — *December 2024*