Om Aryan

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Personal Portfolio 🔗

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

- **Research Intern** — *August 2024 – Jan. 2025*
  Remote — IIT Bombay
  – Engineered a backend system from scratch, enabling seamless user registration and secure OTP authentication, supporting multiple 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

- **Mini-Search-Engine** — *May 2025*
  Spring Boot, JSoup, Docker — GitHub
  – Designed and implemented a full-stack search engine with autocomplete functionality using Spring Boot, JPA, and featuring a custom web crawler, inverted index, TF-IDF

- **Bio Insight Pro** — *December 2024 – April 2025*
  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. Visit https://bioinsight.pro

- **CyberpsychAI** — *March 2024*
  Flask, DockerFile, Tweepy, Scheduler
  – Built a Twitter AI agent that tweets every two hours, effectively maintaining a consistent online presence and engagement.

ACHIEVEMENTS

- **Runner-up, Patent Fest – RBUCON'25 (International Conference)**: Awarded for the **Bio Insight Pro** project, recognized for innovation in biomedical literature analysis and AI-driven decision support system.

CERTIFICATION

- **Network Basics**: Cisco   *December 2024*