ANUSHKA RANJAN

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EDUCATION

Vellore Institute of Technology Bhopal, Madhya Pradesh
Bachelor of Engineering degree Expected September 2026
Major in Computer Science, Minors in Health Informatics
CGPA: 8.68/10

SKILLS

- **Languages:** Python, SQL
- **Tools/Frameworks:** NumPy, Pandas, Matplotlib, Scikit learn, LangChain, LLM, FastAPI

INTERNSHIP

NexaWorks (IT Services and Consulting) Remote
AI/ML Developer Intern 2025

- Assisted in developing an AI involving RAG system to significantly enhance answer accuracy, developing key features like an AI strategy recommender, a conversational chatbot, and a summarizer.
- Worked on LLM's context window to improve efficiency and reduce computational overhead for complex queries.

AI/ML Universe (Under NIT Pondicherry Alumni) Remote
Data Science Research and Blogging Intern 2024

- Authored and published **10+** in-depth blog posts on data science, covering algorithms, real-world applications, and industry trends, reaching **120+ readers per article**.
- Simplified complex ML concepts for a broad audience using clear explanations, examples, and visuals, significantly improving reader engagement.

UNIVERSITY PROJECTS

AskMyDoc - AI Document Helper *[Python, RAG, LLM, FAISS]* Aug 2025

- Developed a document analysis tool for QandA of PDF files with reasoning capability, Text summarization, and document drafting.
- Created a using LangChain and FAISS Vector Database to process and embed document content, enabling efficient retrieval and analysis.

Maternal-Fetal Health Risk Prediction *[Python, Random Forest, Streamlit]* Nov 2024

- Developed an AI-powered maternal and fetal care application that predicts pregnancy risks; achieved 90% precision in predicting high-risk pregnancies after meta heuristic optimization.
- Implemented key features, including a guided meditation section for mental wellness and a trimester-based To-Do list, helping users plan essential pregnancy tasks and track their progress.

PM2.5 Prediction & AQI Risk Modeling *[Python, XGBoost, PyDeck]* Sept 2024

- A machine learning based web application to forecast PM2.5 pollution levels in Delhi, integrating historical air quality data.
- Designed dashboards and geospatial maps to visualize pollution hotspots. A dynamic AQI calculator with EPA-standard breakpoints and health recommendation system that categorizes results with color-coded alerts.

CO-CURRICULAR & ACHIEVEMENTS

- John Hopkins and VITB Health Hackathon – Built an AI-powered spirometer that integrates multiple sensors, achieving 90% + precision in the detection of chronic lung diseases through exhaled breath analysis.
- CTF manager at OWASP Club
- Content writer at GeeksforGeeks student chapter.