ANUSHKA RANJAN

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EDUCATION

Vellore Institute of Technology
Bachelor of Engineering degree   Sept 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, Data Analysis

INTERNSHIP

LabelNest India Pvt.Ltd. (Data Infrastructure and Analytics)   Nov 2025
Data Automation and Engineering Intern, Bengaluru

- Worked on Data enrichment pipelines that cleaned and standardized contact records, improving data quality and enabling clients to manage professional networks for business development operations.
- Contact Intelligence System using FastAPI, SQLite, and featuring real-time monitoring dashboards, search optimization, for tracking professional contacts

NexaWorks (IT Services and Consulting)   Aug 2025
AI/ML Developer Intern, Pune

- 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.

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.

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

- Authored a series of 10+ high-impact data science blog posts on complex machine learning concepts into accessible content,enhancing audience engagement (Under NIT Alumni).
- 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.
- Content writer at GeeksforGeeks student chapter and CTF manager at OWASP Club.