Rithesh V Reddy

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EDUCATION

NIIT University   Neemrana, Rajasthan
Bachelor of Technology in Computer Science, Spealization in Data Science   *Aug. 2022 – Oct 2026*

Sharada PU College   Mangaluru, Karnataka
Karnataka School Examination and Assessment Board   *Jun. 2019 – May 2021*

JSS International School   Ooty, Tamil Nadu
Central Board of Secondary Education   *Jun. 2012 – May 2019*

Vagdevi Vilas School   Varthur, Karnataka
Central Board of Secondary Education   *Jun. 2009 – May 2012*

PROJECTS

SafeInbox | *React, Flask, Python (Naive Bayes), MongoDB, Docker, Jenkins*   Jan 2025 – Apr 2025
- Developed a web-based dashboard using React.js and Flask that integrates with the Gmail API to fetch unread emails, utilizing Naive Bayes for spam classification and TextRank for extractive summarization to help users efficiently prioritize their inbox.
- Engineered a secure system featuring OAuth 2.0 authentication and MongoDB for session management, fully containerized with Docker and automated via Jenkins CI/CD pipelines to ensure consistent deployment and scalability.

AI in Cybersecurity | *Python, XGBoost, LSTM, Docker*   Jan 2025 – Apr 2025
- Developed a real-time Intrusion Detection System integrating XGBoost for high-speed traffic classification and LSTM networks to capture complex temporal attack patterns.
- Deployed the model in a live Dockerized environment with NGINX, successfully detecting real-time DoS attacks simulated via GoldenEye by rerouting low-confidence traffic to the deep learning layer for enhanced reliability.

Medical Chatbot | *Python, Flask, Langchain, LLM's, Pinecone, Docker, AWS*   Oct 2025 – Dec 2025
- Developed a RAG System integrating Groq (Llama-3.1) for sub-second latency and Gemini 2.5 Flash for deep clincal reasoning, ensuring 100 percent grounded response via Pinecone vector retrieval.
- Orchestrated a scalable CI/CD pipeline using Docker and GitHub Actions to deploy containerized microservices on AWS EC2 and ECR, implementing secure environment management and multi-model support.

AI Newsroom | *React, Fast API, PostgreSQL, Groq LPU, Tavily API, Azure.*   Nov 2025 – Dec 2025
- Developed a human-in-the-loop editorial engine using FastAPI, LangGraph, and Next.js, where specialized agents (Research, Writing, Vision) utilize Groq LPU (Llama-3.3, Llama-4) to generate citation-backed articles with reduced hallucinations.
- Deployed the application to Azure via GitHub Actions CI/CD pipelines, while securing data with Supabase Authentication and Row Level Security for granular role-based access.

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, R
Web Development: ReactJS, HTML, CSS, Node.js, Express.js, REST APIs
Databases: MongoDB, PostreSQL, MySQL, Vector Database
Data Science and ML Libraries: pandas, NumPy, Scikit Learn, Seaborn, Matplotlib, TensorFlow
Operating Systems and Virtualization: Linux, VirtualBox
Data Visualization: Power BI
Cloud Technologies: Google Cloud, AWS, Azure
DevOps and CI/CD: Git, GitHub, Jenkins, Docker

ACHIEVEMENTS AND EXTRA-CURRICULAR ACTIVITIES

- Secured 94 percentile in JEE 2022.
- siNUsoid v8 Operations Core.
- White House Captain in my University.
- Kabaddi Coordinater of my University