Prakash Dass R

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Professional Summary

AI Engineer with hands-on experience in the end-to-end development and operationalization of intelligent systems. Proficient in Python, with a focus on building data pipelines, integrating Generative AI models (LLMs, RAG), and deploying scalable solutions on cloud platforms like AWS. Interested in leveraging strong fundamentals to contribute to the full lifecycle of enterprise-grade AI applications.

Projects

Multiformat AI Intake System *Agentic AI, Python, LLM, AWS* Source Code

- Designed an intelligent pipeline using a custom LLM orchestrator to process and classify unstructured data.
- Implemented a chain of AI agents for intent classification and automated information extraction.
- Containerized the full pipeline with Docker and deployed on AWS, ensuring scalability and smooth operationalization.

Kidney Disease Classification with MLOps Pipeline *Python, DVC, Docker, AWS, CI/CD* Source Code

- Developed an end-to-end medical image classification system using VGG16 transfer learning to detect kidney tumors from CT scan images with a complete MLOps pipeline.
- Implemented experiment tracking with MLflow and data versioning with DVC, enabling reproducible model training and performance monitoring across multiple iterations.
- Built a production-ready Flask web application with real-time image upload and prediction capabilities, containerized with Docker and deployed using CI/CD pipelines on AWS (EC2).

Fault-Tolerant Distributed Key-Value Store *Go, Distributed Systems, Raft Consensus* Source Code

- Implemented the Raft consensus algorithm from scratch in Go to build a fault-tolerant, distributed system capable of maintaining state consistency across a cluster.
- Engineered core Raft mechanics including leader election, log replication, and automatic failover, ensuring system availability even with node failures.
- Designed a secure, concurrent network architecture using goroutines and channels to handle client requests and internal cluster communication efficiently.

Education

B.Tech, Artificial Intelligence & Machine Learning *Sri Shakthi Institute of Engineering and Technology* 2022 – 2026

- **Relevant Coursework:** Data Structures, Object Oriented Programming, DBMS

Experience

Machine Learning Trainee (Virtual) *Infosys Springboard* Batch 1, 2024

- Completed an intensive ML training program, validated via two proctored examinations.
- Developed a KNN-based heart disease classifier as a capstone project, integrated with a Django app.
- Collaborated with a remote team of 4 members from across India to deliver the final project.

Technical Skills

- **Proficient:** Python, SQL, Git, REST APIs
- **Experienced With:** Generative AI (RAG, LLMs), Docker, AWS Basics), MLOps (MLflow, DVC), CI/CD
- **Familiar With:** React.js, Express.js, Go, Distributed Systems (Raft)

Achievements

- Finalist at ABB EngineeredX Hackathon (2025) on digitalizing process and instrumentation diagrams.
- Placed as a Finalist (AI track) in National Hackathon 2025 among 200+ competing teams.
- Awarded for being the "Most Interactive Participant" at multiple Google Developer Group (GDG) events for active community engagement.

Leadership & Community Involvement

Community Service Director & All Avenues Chair *Rotaract Club of SIET* 2023 – 2025

- Managed a team of 8 in the complete lifecycle of over 20 technical and community projects.
- Built and deployed custom web applications (Meme Royale, Treasure Hunt) to increase event engagement.
- Directed project planning, task delegation, and communication for all major club initiatives.