ROHITH KUMAR M

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WORK EXPERIENCE   22 MONTHS

Brillio	Senior AI / ML Engineer	April '24 – Present

- Led the solutioning for a support chatbot integrated with Microsoft Teams and ServiceNow, leveraging RAG (Retrieval Augmented Generation) and vector databases to construct a robust knowledge base from conversation history and application data. Designed the solution architecture, engaged with clients to finalize the approach, and developed cost estimations and timeline for both the MVP and scalable product.
- Developed a LLM Gateway using Kubeflow to streamline LLM development, deployment, and management. Created Private Python packages for pipeline components, containerized them using Docker, and stored the images in Artifact Registry to ensure modularity and reusability. Integrated open-source models for fine-tuning on Vertex AI and implemented robust performance monitoring with Vertex AI Monitoring.
- Designed and deployed a cloud-based SAS-to-Python code conversion pipeline on GCP and Azure, featuring three stages: code conversion, test case generation (including edge cases), and execution of both. Implemented CI/CD pipelines with Azure and GitHub Actions for automated builds and seamless updates to the web application, ensuring reliability and scalability.
- Developed a Streamlit application for classifying and extracting entities from BFSI documents, utilizing advanced NLP and prompt engineering techniques. Deployed a scalable API with Flask on Cloud Run for seamless integration and performance.

Mitratech	Technical Support Engineer II	Feb '23 – July '23

- Executed SQL scripts to identify and rectify performance bottlenecks, optimizing database server performance.
- Provided tailored SQL queries to clients, significantly improving data retrieval efficiency and accuracy.
- Resolved client issues across sub-products, utilizing both personal test environments and live client servers.

Cognizant	Programmer Analyst	June '19 – April '21

- Optimized frequently used database scripts, implementing best practices and improving efficiency by 75%.
- Automated recurring file migration, saving 90 annual man-hours and eliminating file loss risks.
- Awarded "Sapphire" by the project director, who cited "working well on several complicated Company-prioritized tickets and resolving them in a timely way, hence enabling the business to meet its EB goals. As this was harming the reputation, this has received much praise".

PROJECTS

Facial Recognition and Fare Automation
- Implemented a secure, real-time facial recognition system for public transport, enabling seamless boarding and automated fare processing to reduce manual intervention.
- Developed an administrator chatbot to deliver insights on usage patterns, optimize resource planning, and improve operational efficiency based on real-time data.

Attrition Prediction with MLOps
- Developed a Streamlit application to predict employee attrition, incorporating a bulk upload feature for efficient analysis and utilizing MLflow, Weights & Biases, and DagsHub to track, optimize, and monitor model performance.
- Implemented an MLOps workflow to streamline model development, experimentation, and deployment, ensuring robust and reproducible machine learning pipelines.

Futsal
- Developed a web application for football match reservation using Flask framework.
- Added features for customers, such as to sign up, login and logout securely, check if a slot is available, inquire about rate and book the slot for a match.

ACADEMICS

Qualification	Institute	Board / University	% / CGPA	Year
PGP Data Science	Praxis Tech, Bangalore	Praxis	83.75	2024
BTech (ECE)	Amrita School of Engineering, Coimbatore	Amrita University	72	2019
XII	KV Air Force Station Sulur, Coimbatore	CBSE	84	2015
X	KV Air Force Station Sulur, Coimbatore	CBSE	86	2013

CERTIFICATIONS

- Google Cloud Professional Machine Learning Engineer, [Badge](#)
- SQL (Intermediate), HackerRank
- Successfully completed 'Complete Python Developer in 2022', Udemy Professional Certification

TECHNICAL SKILLS

- **Platform:** GCP, Azure
- **Databases:** Big Query, MS SQL Server, SQLite
- **Development Tools:** Vertex AI, VS Code, Python, SQL, Big Query, Docker
- **Knowledge on:** Classic ML, Gen AI, LLM, Pipelines, Flask, Django, Streamlit

HOBBIES

- Football, Chess, Nature and Science