SARVESH **GANESAN**

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Professional Summary

AI Engineer with more than 2 years of experience in designing and implementing generative AI solutions, specializing in autonomous AI agents. Proficient in Python, AWS, and vector databases, with a strong command of LangChain, RAG systems, and prompt engineering techniques. Demonstrated ability to create scalable ML/AI solutions from the ground up, while collaborating effectively with cross-functional teams to deliver high-quality software products. Career aspirations include further enhancing technical expertise and contributing to innovative AI initiatives.

Technical Skills

- Python
- Generative AI
- Data engineering (Apache Spark, Apache Iceberg)
- Vector databases (PGVector, Pinecone, FAISS)
- Cloud infrastructure (AWS: Bedrock, EC2, ECR, EKS, S3, Lambda)
- API development (FastAPI, REST APIs, gRPC)
- ML experimentation and deployment (MLFlow, Docker)

Experience

AI Research Engineer — 09/2023 to Current
Groundzero Software Private Limited — Chennai
- Developed and deployed conversational AI and autonomous agent solutions (LLMs, RAG, FastAPI, AWS Bedrock).
- Architected and implemented an interactive backend, enabling users to run distributed ETL/data transforms directly in-browser, using custom Runtime Environments (Spark, Pandas, DuckDB), provisioned on-demand in containers.
- Built scalable cloud infrastructure for automation, CI/CD, and secure operations using AWS (ECR, EKS, EC2, Lambda, CodePipeline).
- Created an extensible API catalog, streamlining API development and integration across all platform services.
- Implemented AI Agents to automate datasets, charts, visualization and dashboard generation.
- Integrated ML Libraries in all the custom runtime environments, facilitating inference operations.
- Currently researching a novel approach to improve RAG retrieval accuracy by experimenting with SLM and LLMs combined with vector databases.

Software Trainee — 06/2023 to 08/2023
SCI-BI Software Solutions Private Limited — Chennai
- Developed and maintained data visualizations and dashboards using Power BI and Tableau
- Participated in client meetings to gather requirements and translate them into technical specifications
- Created reports and presentations, enhancing clients' data-driven decision-making

Education

Bachelor of Technology: Computer Science and Engineering, Specialization in Artificial Intelligence and Machine Learning — 05/2023
SRM Institute of Science and Technology — Chennai
GPA: 9.08

Projects

AgentSynapse: Enterprise AI agent platform enabling intelligent data analytics automation through specialized agents (SQL, BI, ETL, Analytics) with contextual memory system and comprehensive tool integration for unified data operations
TaskTracker: Implemented a simple task tracker, tracking tasks while generating motivational quotes using LLMs.

Languages

Tamil: First Language

English: C2
Proficient (C2)

Telugu: C2
Proficient (C2)

Hindi: B2
Upper Intermediate (B2)

German: A2
Elementary (A2)

References

References available upon request.