

SARVESH GANESAN

AI Research Engineer

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PROFESSIONAL SUMMARY

2+ years AI Engineer specializing in generative AI and autonomous agents, skilled in Python, FastAPI, and AWS (Bedrock, EKS, Lambda). Experienced in building RAG pipelines, vector databases, and robust APIs. I design scalable ML services, optimize retrieval and inference, and collaborate to ship production-grade features.

TECHNICAL SKILLS

Programming Languages: Python

Frameworks: FastAPI

Cloud Deployment: AWS Bedrock, AWS EC2, AWS ECR, AWS EKS, AWS S3, AWS Lambda

Tools And Databases: REST APIs, gRPC, MLFlow, Docker, PGVector, Pinecone, FAISS

Others: Generative AI, Data Engineering, Apache Spark, Apache Iceberg, Vector Databases

PROFESSIONAL EXPERIENCE (2+ YEARS)

AI Research Engineer | Groundzero Software Private Limited | Chennai | Sep 2023 - Present

- Engineered and deployed **conversational AI** and **autonomous agents** using LLMs and RAG, exposing services via FastAPI on AWS Bedrock.
- Architected an interactive backend enabling **distributed ETL** and in-browser data transforms via containerized **runtime environments** (Spark, Pandas, DuckDB), reducing processing time by **30%**.
- Built **scalable cloud infrastructure** for automation, CI/CD, and secure operations on AWS (ECR, EKS, EC2, Lambda, CodePipeline), increasing reliability to **20%** uptime.
- Created an **extensible API catalog** to standardize integration across platform services, accelerating feature delivery by **40%**.
- Implemented **AI agents** to automate dataset, chart, visualization, and dashboard generation, cutting manual analytics effort by 20 hours per week.
- Integrated **ML libraries** across runtime environments to enable inference at scale and streamline deployment workflows.
- Researched retrieval optimization by combining **SLMs and LLMs** with vector databases to improve RAG accuracy.

Technologies Used: Python, FastAPI, AWS Bedrock, AWS EKS, AWS ECR, AWS EC2, AWS Lambda, AWS CodePipeline, AWS S3, Apache Spark, Pandas, DuckDB, Docker, MLFlow, PGVector, Pinecone, FAISS, LLMs, RAG

Software Trainee | SCI-BI Software Solutions Private Limited | Chennai | Jun 2023 - Aug 2023

- Developed and maintained **Power BI** and **Tableau** dashboards, improving reporting turnaround by 20%.
- Participated in **client meetings** to gather requirements and translate them into **technical specifications**, increasing stakeholder alignment by **50%**.
- Created **reports and presentations** that enhanced **data-driven decisions**, reducing manual analysis time by **20 hours per week**.

Technologies Used: Power BI, Tableau

PROJECTS

AgentSynapse

<https://github.com/Sarvesh-GanesanW>

Enterprise AI agent platform enabling intelligent data analytics automation through specialized agents (**SQL, BI, ETL, Analytics**) with contextual memory and integrated tools for unified data operations.

- Designed **specialized agents** to automate SQL, BI, ETL, and analytics workflows, reducing analysis cycle time and cutting manual steps..
- Implemented **contextual memory** and tool integration to improve retrieval accuracy, boosting task success rate.

TaskTracker

<https://github.com/Sarvesh-GanesanW>

Simple task tracker that manages tasks while generating motivational quotes using LLMs.

- Integrated **LLM-driven prompts** to personalize quotes.
- Built a lightweight **task management API**, achieving response times under **1s**.

EDUCATION

Bachelor of Technology: Computer Science and Engineering, Specialization in Artificial Intelligence and Machine Learning | May 2023

SRM Institute of Science and Technology | Chennai

LANGUAGES

- Tamil
- English
- Telugu