ADHITH SANKAR

GenAI Engineer — LLM, RAG & Agentic AI Systems

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SUMMARY

GenAI engineer with 2+ years of production experience building LLM, RAG and multi-agent systems for enterprise clients. At Entelegen Analytics LLP, took GenAI products from whiteboard to deployment — architecture, backend APIs, containerised deployment on SAP AI Core, GCP and AWS, and client handover. Strengths: RAG pipelines, LangGraph multi-agent orchestration, and turning vague business problems into production AI systems.

TECHNICAL SKILLS

GenAI & LLMs: RAG, multi-agent systems, LangGraph, LangChain, prompt engineering, Ollama, Mistral, Gemini API, NLP
Retrieval: FAISS, Qdrant, Sentence Transformers, semantic search, knowledge graphs
Backend: Python, FastAPI, Flask, WebSocket, REST APIs, MongoDB, n8n, Git
Cloud & Deployment: Docker, SAP AI Core, GCP Cloud Run, Google Cloud Storage, AWS Fargate

EXPERIENCE

Data Scientist · *Entelegen Analytics LLP* — Aug 2024 – Present

Agentic Purchase Requisition Automation · *LangGraph · LangChain · Flask · WebSocket · n8n · Docker*

- Built a LangGraph multi-agent system that automates purchase requisition workflows; each agent owns one step while the orchestration layer manages state and handoffs, and new agents plug in without changing the core graph.
- Built a Flask + WebSocket backend for a real-time chat interface, plus a parallel n8n low-code version the client can modify without engineering support.
- Ran client demos and iterated on agent logic and UX through to production handover.

Contract Document Intelligence — RAG Q&A · *FastAPI · FAISS · Sentence Transformers · Ollama (Mistral) · SAP AI Core · Docker*

- Engineered a RAG pipeline over enterprise contract PDFs: text, tables and images extracted, embedded with Sentence Transformers and indexed in FAISS on SAP Blob Storage.
- Served a locally hosted Mistral model via Ollama so sensitive contract data stayed within the client's infrastructure.
- Ran ingestion and inference as separate Dockerised services on SAP AI Core; the system has processed 100+ contracts and is used by the client team for contract review.

UNSPSC Commodity Recommendation Engine · *Flask · Embeddings · Cosine Similarity · Mistral · SAP AI Core → AWS Fargate*

- Built a semantic engine mapping free-text purchase descriptions to UNSPSC commodity codes, replacing a manual classification step: cosine-similarity retrieval over the embedded taxonomy, with a Mistral layer for ambiguous inputs.
- Shipped as a Dockerised Flask REST API on SAP AI Core, then migrated to AWS Fargate as usage grew; live on the client's customer-facing procurement site across multiple organisations.

NCERT Knowledge Assistant — School AI Learning Platform · *FastAPI · Qdrant · Gemini API · MongoDB · Knowledge Graphs · GCP Cloud Run*

- Contributed to a RAG learning assistant for NCERT textbooks deployed for a leading Chennai school.
- Built the ingestion pipeline (text/image extraction, images to Google Cloud Storage, embeddings with metadata in Qdrant) and FastAPI/WebSocket services for chat Q&A with image citations and a quiz mode; deployed on GCP Cloud Run.

EARLIER EXPERIENCE

Machine Learning Intern, *TechAnalogy* — Integrated NLP/ML models into web services; built DataCLI, a Python (Click) CLI that automates preprocessing. — Jun 2021 – Feb 2022

Data Associate Intern, *ExpandAI* — Annotated training data and ran object-detection model experiments. — Aug 2021 – Nov 2021

Student Research Assistant, *SRM University* — Co-authored 'Coronary Artery Disease Prediction using ML Algorithms' (IEEE ICESIC 2022). — Nov 2021 – 2022

EDUCATION & CERTIFICATION

B.Tech, Computer Science and Engineering · *SRM Institute of Science and Technology · CGPA 8.9/10* — 2019 – 2023

Google Cloud Professional Data Engineer · *Credential ID 05254f07e69041dab8931fbcacddb1a4* — Aug 2026 – Aug 2028