SANJAY N

 sanjaytechd | sanjay-narayan | ✉ sanjaynbe2303@gmail.com | ▌ 8951427835

PROFILE

Azure-certified AI Engineer with hands-on experience building scalable multi-agent LLM systems for enterprise use.

EXPERIENCE

Associate Data Engineer @ DataSturdy Consulting Private Limited   Nov 2024 - Present

1. Client Project - Infosys AI Project:

- Built and deployed a production-grade multi-agent RAG chatbot using CrewAI, integrating specialized agents (Database, Document, WebScraping etc.) and a Manager Agent for task validation, planning, and re-execution.
- Experimented with agentic frameworks including Autogen AG2 (group chat) and Microsoft Autogen (Swarm-based coordination); designed agents, tools, and prompts for each framework.
- Developed robust batch pipelines to extract content from diverse file formats (TXT, DOCX, PDF, PPT, XLSX), replaced images with GPT-4o summaries, chunked text via LangChain, embedded via Azure OpenAI, and stored in Elasticsearch.
- Created recursive web scraping batch jobs (Scrapy) targeting documentation-heavy websites (e.g., Kubernetes, Elastic Stack), processed and embedded the content for semantic search.
- Built SQL batch jobs to extract full metadata lineage (tables, views, procedures, functions, triggers, constraints, etc.) into normalized relational schema for governance and search.
- Integrated LlamaIndex for precise SQL-based querying, and Azure Cognitive Services for enabling voice-based chatbot interaction (TTS and STT).
- Migrated application backend from Flask to FastAPI to support modular, high-performance deployment of multi-agent AI systems.

2. Internal Project - HR Resume Evaluation System:

- Built an AI-driven internal HR tool to parse, evaluate, and rank resumes for job-role fit using GPT-4o via Azure OpenAI.
- Applied prompt engineering to extract structured information from resumes and match against job descriptions.
- Stored resumes securely in Azure Blob Storage and integrated output into internal dashboards.
- Enabled automated candidate shortlisting based on skill relevance and role suitability.

INTERNSHIPS

1. Intern @ DataSturdy Consulting Private Limited   Aug 2024 - Oct 2024

- Gained hands-on experience in prompt engineering and building efficient prompts for multi-agent LLM systems. chatbot development.
- Explored and implemented various embedding and vectorization techniques, including Azure OpenAI embeddings for semantic search.
- Strengthened skills in Python and SQL by contributing to batch jobs and chatbot logic.
- Developed a strong understanding of Retrieval-Augmented Generation (RAG) architecture and its real-world application in enterprise

Academic Projects

1. Comprehensive Dementia Detection

- Spearheaded the development of a Comprehensive Dementia Detection system, integrating both Support Vector Machine (SVM) and Convolutional Neural Network (CNN) models. Achieved remarkable accuracies of 96% (SVM) and 97% (CNN) using Python libraries like TensorFlow and OpenCV, ensuring robust predictive capabilities.

Education

2020 - 2024	Bachelor of Engineering (Computer Science) at **JSSATEB**	(CGPA: 8.9/10.0)
2018 - 2020	PUC at RNS Composite PU College	(91.12)
2018	Class 10th at ST.Philomena's Memorial High School	(93.16)

Skills

Programming Skills	Python, SQL, C, JAVA
Core	Data Structures, OS, DBMS, Computer Networks
AI-ML	Machine Learning, Deep Learning, LLMs, Agentic AI , Prompt Engineering , GenAI, Autogen, CrewAI, LlamaIndex, Letta
Devops	AWS, EC2, S3, VPC, IAM, AMI, EBS, CloudWatch, Linux, Git, Github, Jenkins, Docker, Kubernetes, Terrraform, Ansible, Prometheus, Grafana

Certifications

1. Microsoft Certified: Azure AI Engineer Associate (AI-102)   View Certificate

Certified as Microsoft Azure AI Engineer Associate, demonstrating proficiency in Azure AI services and solution development.

2. DevOps Fundamentals   View Certificate

Successfully completed the DevOps Fundamentals course by StarAgile, powered by IBM Developer Skills Network.

3. Docker Essentials: A Developer Introduction   View Certificate

Successfully completed the Docker Essentials: A Developer Introduction course by StarAgile, powered by IBM Developer Skills Network.

4. Scalable Web Applications on Kubernetes   View Certificate

Successfully completed the Scalable Web Applications on Kubernetes course by StarAgile, powered by IBM Developer Skills Network.

Achievements

1.Quarterly Best Team Award

Recognized as part of a 2-person team for outstanding performance and contribution to the Infosys AI project at DataSturdy Consulting Pvt. Ltd.

2.Best Project Award   View Certificate

Led team to win Best Project Award at JSSATE Open Day Exhibition 2024 for Comprehensive Dementia Prediction, demonstrating pioneering application of Machine Learning (ML) and Deep Learning (DL) in healthcare analytics.