

SANJAY N

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PROFILE

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

EXPERIENCE

Data Engineer (GEN AI) @ DataSturdy Consulting

Oct 2025 - Present

1. Client Project - Infosys AI Project:

- Designed and implemented Agent-to-Agent (A2A) communication protocols for reliable agent coordination, messaging, and task delegation across distributed AI agents.
- Developed and deployed MCP servers (SQL MCP and Elasticsearch MCP) to enable tool-augmented agent workflows and interoperable capability sharing.
- Implemented NER and PII detection pipelines using Azure Language Service to identify sensitive entities and enforce data protection within AI workflows.
- Designed and automated FAQ generation pipelines, transforming structured and unstructured data into agent-consumable knowledge sources.
- Built agent testing and validation automation, ensuring correctness of tool calls, response quality, failure handling, and re-execution logic.
- Implemented application anomaly detection and observability for AI data pipelines to improve system reliability and incident response.

2. AI-Powered Data Insight and Conversational Analytics Platform:

- Built an end-to-end AI analytics platform with dual modes: Insight Mode for CSV data exploration and Chat Assistant Mode for enterprise document/SQL querying.
- Implemented a multi-agent architecture (CrewAI) with specialized agents for dataset analysis, KPI extraction, document retrieval, and natural-language SQL generation.
- Integrated Azure AI Search, Azure SQL Database, Azure Blob Storage, and Azure OpenAI (GPT-4o, embeddings) to enable contextual insights and conversational intelligence.
- Automated data profiling, KPI detection, and visual dashboard generation, including charts and narrative summaries using agentic reasoning.

Associate Data Engineer (GEN AI) @ DataSturdy Consulting

Nov 2024 - Sep 2025

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.
- 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).

INTERNSHIPS

1. Data Engineer Intern @ DataSturdy Consulting

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

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, A2A, MCP, Azure Cognitive Services
Devops	AWS, EC2, S3, VPC, IAM, AMI, EBS, CloudWatch, Linux, Git, Github, Jenkins, Docker, Kubernetes, Terraform, 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. Microsoft Certified: Azure Data Scientist Associate (DP-100)

[View Certificate](#)

Certified in end-to-end machine learning lifecycle, including data preparation, model training, deployment, and monitoring.

3. DevOps Fundamentals

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

4. Docker Essentials: A Developer Introduction

[View Certificate](#)

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

5. Scalable Web Applications on Kubernetes

[View Certificate](#)

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