

# 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

---

### 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 <b>JSSATEB</b>	(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

[View Certificate](#)

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.