

# 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

### Associate Data Engineer (GEN AI) @ DataSturdy Consulting

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.
- Built and deployed MCP servers to enable tool-augmented agent workflows and interoperable capability sharing.
- Implemented A2A (Agent-to-Agent) communication protocol for reliable agent coordination, messaging, and task delegation.
- 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).
- Added NER and PII detection using Azure Language Service to identify entities and sensitive information in user queries.
- Migrated application backend from Flask to FastAPI to support modular, high-performance deployment of multi-agent AI systems.

#### 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.

#### 3. 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.
- Enabled automated candidate shortlisting based on skill relevance and role suitability.

# INTERNSHIPS

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## 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

# EDUCATION

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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

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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

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

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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)

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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.