Nagendra Katigowri

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Professional Summary

- Information Systems graduate with strong academic and hands-on project experience in data engineering, analytics, and cloud platforms.
- Skilled in building end-to-end data pipelines using SQL, Python, Azure Data Factory, and Databricks.
- Strong understanding of ETL/ELT workflows, data modeling, data validation, and analytics-ready datasets.
- Demonstrated ability to translate business and academic requirements into scalable, reliable, and analytics-ready data solutions.

Technical Skills

- **Programming & Querying:** Python, SQL, PySpark
- **Data Engineering:** ETL/ELT, Data Cleaning, Data Validation, Data Modeling
- **Cloud Platforms:** Azure Data Factory, Azure Databricks, Azure Synapse, ADLS Gen2
- **Big Data:** Apache Spark, Delta Lake
- **Visualization:** Power BI (Dashboards, KPIs)
- **Tools & Practices:** Git, GitHub, Agile Fundamentals, Documentation

Academic & Personal Projects

AI-Powered Knowledge Extraction Chatbot
Python, LangChain, Azure OpenAI, FAISS, Sentence Transformers

- Developed an AI-powered chatbot capable of answering queries from large document repositories.
- Implemented embedding-based semantic search achieving **90% response accuracy**.
- Reduced document lookup time by **80%** using efficient text chunking and vector indexing.
- Deployed the application as a web-accessible interface for real-time user interaction.

Cloud ETL Data Pipeline Project
Azure Data Factory, Databricks, Delta Lake, SQL, Power BI

- Built an end-to-end ETL pipeline to ingest, transform, and load **1M+ records per month**.
- Designed Delta Lake tables using Bronze–Silver–Gold architecture.
- Implemented automated data quality checks ensuring **99.9% accuracy**.
- Created Power BI dashboards to track KPIs, trends, and data freshness.

Real-Time Streaming & Analytics Project
Apache Kafka, Spark Structured Streaming, Azure Event Hubs

- Designed real-time streaming pipelines processing **100K+ events per hour**.
- Performed live transformations and aggregations using Spark Structured Streaming.
- Enabled near real-time monitoring and analytics use cases.

Education

Master of Science in Information Systems (Project Management)	*May 2025*
Wilmington University, Delaware, USA	
Bachelor of Technology in Computer Science and Engineering	*June 2022*
Guntur Engineering College, India	

Certification

- Microsoft Certified: Fabric Data Engineer Associate