

NEELAM HASWANTH

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PROFESSIONAL SUMMARY:

Enterprise Data Integration & AI Engineer with a proven track record in designing and implementing scalable data integration architectures, automating data processes, and enabling seamless interoperability across cloud and on-premise platforms. Skilled in building robust ETL/ELT pipelines, applying data governance frameworks, and driving process efficiency through automation. Strong expertise in cloud platforms such as Azure, experience with real-time data streaming, APIs, orchestration, and CI/CD practices. Adept at cross-functional collaboration with developers, analysts, and data scientists to deliver secure, reliable, and compliant enterprise data solutions. An accomplished Enterprise Data Integration & AI Engineer with a demonstrated history of designing and implementing scalable data integration architectures, automating data processes, and facilitating seamless interoperability across cloud and on-premise platforms. Proficient in constructing robust ETL/ELT pipelines, applying data governance frameworks, and enhancing process efficiency through automation. Possessing substantial expertise in cloud platforms such as Azure, with experience in real-time data streaming, APIs, orchestration, and CI/CD practices. Adept at cross-functional collaboration with developers, analysts, and data scientists to deliver secure, reliable, and compliant enterprise data solutions.

Core Skills

Integration & Automation:	ADF, Databricks, ETL/ELT, APIs (REST/SOAP), iPaaS, Python, SQL
Cloud Platforms:	Microsoft Azure, AWS (Redshift), GCP (familiar), Data Lake, Blob Storage
Data Governance:	Quality, Lineage, Metadata Management, Regulatory Compliance
Orchestration:	Airflow, Azure Data Factory pipelines, Delta Live Tables, Unity Catalog
Architecture & Modeling:	Data Lakehouse, Medallion Architecture, Schema Evolution, CI/CD
Streaming & Messaging:	Kafka (learning), Event Hubs, Pub/Sub
Tools:	Power BI, GitHub, Azure DevOps, JIRA, Alteryx (exposure)
Soft Skills:	Cross-functional collaboration, stakeholder communication, problem-solving

GEN AI SKILL SET:

Skill Category	Skills & Technologies	Proficiency	Applications
Foundation Models	LLMs, Midjourney, fine-tuning	Beginner	Custom assistants, enterprise solution design
Vector Databases	Pinecone, Chroma, FAISS, Azure AI Search	Beginner	Semantic search, similarity matching, vector store integration
RAG Methods	Chunking, Embedding Selection, Context Window Optimization, Hybrid Search	Beginner	Document Q&A, knowledge retrieval, intelligent assistants
Prompt Engineering	CoT reasoning, Few-shot learning, System prompt design, Output control	Beginner	Specialized domain adaptation, consistent LLM output, reasoning tasks
GenAI Architectures	Transformers, Attention Mechanisms, Embedding models, Token processing	Beginner	Custom AI architecture, performance optimization
LLM	LangChain, Azure OpenAI, AWS Bedrock, MLflow	Beginner	Production-grade systems
Responsible AI	Hallucination detection, Output safety, Privacy techniques, Responsible deployment frameworks	Beginner	Compliance with AI ethics, enterprise-grade safety policies

PROFESSIONAL EXPERIENCE:

Azure Data Engineer DatafactZ – Northville, MI |

Jul 2023 – Present

- Designed and implemented **automated data pipelines** using Azure Data Factory, Databricks, and PySpark to integrate data from multiple enterprise sources into centralized data lakes.
- Built **data ingestion and transformation workflows** ensuring high availability, scalability, and governance compliance.
- Optimized existing ETL processes, improving performance and reducing manual intervention.
- Collaborated with data scientists, analysts, and application developers to streamline data flows between operational and analytical systems.
- Developed JSON scripts to automate ADF pipeline deployment and integrated with Git for version control.
- Monitored pipeline health, set up alerting, and ensured **SLA compliance**.

- Architected and maintained **medallion data lakehouse architecture**, enabling real-time and batch data processing.
- Designed and deployed **integration frameworks** using Databricks Auto Loader, Kafka, and ADF.
- Enforced **data quality and governance standards**, including lineage, encryption, and PII masking.
- Automated schema inference and ingestion logic, reducing manual processing time significantly.
- Built and monitored **metadata-driven pipelines** supporting multiple business domains.
- Implemented CI/CD pipelines for Databricks using GitHub Actions and Azure DevOps.
- Delivered training to teams on pipeline automation, governance, and data compliance.

Projects

- **Scalable Data Lakehouse & Power BI**
Architected an Azure Databricks lakehouse solution with automated Delta Lake pipelines, schema evolution handling, and governance using Unity Catalog. Enabled real-time reporting via Power BI dashboards integrated with Teams.
- **AI-Powered Job Portal**
Built a full-stack AI solution with semantic job matching using Hugging Face, OpenAI GPT, and FAISS. Automated backend workflows and deployed serverless architecture with CI/CD.
- **Product Review Sentiment Analyzer**
Automated ingestion and NLP processing pipelines in Databricks for customer reviews using Hugging Face transformers, enabling real-time sentiment insights.

EDUCATION:

- 05/2024 **Master of Science: Computer Science**, The University of Texas at Arlington - Arlington, TX, USA