K S S R VINEETH

Azure Data Engineer | 3+ Years Experience | Retail Domain
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CAREER OBJECTIVE

Azure Data Engineer with 3+ years of experience in designing, building, and maintaining scalable data solutions for retail organizations. Expertise in Azure Data Factory, Synapse Analytics, and modern data architecture patterns. Proven track record of delivering data pipelines that enable business intelligence and analytics. Seeking opportunities to leverage Azure data engineering expertise to drive data-driven transformation and innovation.

RESPONSIBILITIES

1 Designed and implemented scalable data pipelines using Azure Data Factory and Synapse Analytics, enabling high-performance retail data warehouses.

2 Developed real-time streaming solutions with Azure Stream Analytics and Event Hubs to support operational dashboards and compliance monitoring.

3 Collaborated with business analysts and data scientists to transform requirements into scalable data workflows and reporting solutions.

4 Built ETL pipelines for retail transactions with automated validation, ensuring clean, reliable, and auditable datasets.

5 Migrated legacy on-premises data warehouse to Azure Synapse with dbt and automated CI/CD pipelines for robust deployment.

SKILL SET

Azure Services	ADF, Synapse, ADLS, Azure SQL, Databricks, Stream Analytics
Data Warehousing	Synapse SQL Pools, Snowflake, SQL Server
ETL/ELT Tools	ADF, SSIS, Apache Airflow, dbt
Big Data	Apache Spark, PySpark, Delta Lake, Hadoop
Programming	Python, SQL, Scala, PowerShell
Databases	SQL Server, PostgreSQL, MongoDB, Cosmos DB
Data Modeling	Star Schema, Snowflake Schema, Data Vault
Version Control	Git, Azure DevOps, GitHub

PROFESSIONAL EXPERIENCE

Data Engineer at AIML Labs Pvt.Ltd (June 2022 – Present)

Retail Data Lake Implementation

Description: Designed and implemented enterprise data lake for retail organization with scalable ingestion pipelines handling 100GB+ daily data.

Skills: Azure Data Lake Storage, ADF, Synapse Analytics, Data Partitioning, Cost Optimization

Responsibilities:

- Led end-to-end design of the retail data lake, collaborating with stakeholders to define governance, partitioning, and ingestion best practices for scalability and compliance.

- Built automated ingestion pipelines using ADF and PySpark, integrating structured and semi-structured data sources with efficient transformation logic.

- Implemented compression, partitioning, and caching strategies that reduced storage costs by 60% and improved query performance by 40%.

- Developed real-time monitoring dashboards and alerting mechanisms to proactively track data quality, latency, and ingestion issues.

- Established metadata-driven pipeline frameworks that improved reusability and accelerated onboarding of new data sources.

Real-time Retail Analytics Platform

Description: Developed a streaming analytics platform processing 1M+ events/hour with sub-second latency for retail inventory and sales monitoring.

Skills: Azure Event Hubs, Stream Analytics, Synapse, Power BI

Responsibilities:

- Designed real-time architecture leveraging Event Hubs and Stream Analytics to process high-velocity inventory and sales data streams.

- Configured and optimized Stream Analytics jobs to support real-time transformations, aggregations, and anomaly detection on live data feeds.

- Developed interactive Power BI dashboards providing near real-time KPIs for store managers and business leadership teams.

- Optimized event processing throughput by tuning partitioning strategies, scaling resources, and reducing end-to-end latency to sub-second levels.

- Implemented proactive monitoring and alerting mechanisms to ensure system reliability, availability, and fault tolerance.

Customer 360 Data Platform

Description: Integrated 15+ customer data sources into a unified view with automated data validation, improving segmentation accuracy by 35%.

Skills: ADF, Synapse, Power BI, Data Quality, Customer Analytics

Responsibilities:

- Designed dimensional data models and architecture patterns that enabled unified reporting and customer insights across multiple business domains.

- Implemented ADF pipelines integrating CRM, e-commerce, and marketing data sources, ensuring complete and accurate data ingestion.

- Created automated validation frameworks with data quality rules that ensured completeness, accuracy, and timeliness of customer datasets.

- Built Power BI dashboards for analytics and marketing teams to improve segmentation, retention, and personalized engagement campaigns.

- Delivered a scalable Customer 360 platform that enhanced customer targeting and drove a 35% improvement in segmentation accuracy.

EDUCATION

Bachelor of Technology in Civil Engineering – KHIT Guntur