

Vamsi krishna N

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SUMMARY

- ❖ Results-driven **Azure Data Engineer** with **2 years of professional experience** in designing, developing, and optimizing **cloud-based data pipelines and modern data platforms**.
- ❖ **Proficient in Azure Data Factory, Databricks, Synapse Analytics, SQL, and Power BI**, with strong expertise in **ETL/ELT processes, data modeling, and performance optimization**.
- ❖ Skilled in implementing **Medallion Architecture (Bronze-Silver-Gold)** to enable scalable, secure, and reliable analytics solutions.
- ❖ Experienced in **end-to-end migration** of on-premises data ecosystems to **Azure Cloud**.
- ❖ Strong collaboration skills working with **business stakeholders, BI teams, and DevOps engineers** to deliver business-ready insights.
- ❖ Adept in ensuring **data governance, lineage, and role-based security (RBAC)** for compliance and trust.
- ❖ Passionate about building **data-driven solutions** that empower organizations to achieve actionable insights and improve decision-making.

Core Competencies: Azure Data Factory (ADF), Azure Databricks, PySpark, Azure Synapse Analytics, Azure SQL Database, Data Lake Gen2, ETL/ELT, Data Modeling, Power BI, SQL, Python, Snowflake, Git, Azure DevOps.

TECHNICAL SKILLS

- **Cloud Platforms:** Azure Data Factory, Azure Databricks, Azure Synapse Analytics, Azure SQL, Azure Data Lake Storage Gen2, Azure Active Directory.
- **Programming:** Python (Pandas, PySpark), SQL, DAX.
- **Data Engineering:** ETL/ELT Pipelines, Data Modeling (Star Schema, Snowflake Schema), Incremental Loads, CDC, Delta Lake.
- **Databases:** MS SQL Server, Azure SQL, Snowflake
- **Data Warehousing:** Dimensional Modeling, Fact & Dimension Tables.
- **Version Control & DevOps:** Git, Azure DevOps, Key Vault Integration.
- **BI & Visualization:** Power BI (Desktop & Service), KPI Dashboards, Reports, RLS
- **Others:** SSIS, Performance Tuning, Row-Level Security.

PROFESSIONAL EXPERIENCE

- Worked as an Azure Data Engineer at **LTI Mindtree Limited** from Dec 2021 to Nov 2023.

PROJECTS

Project#1

Project : Deckers Brands – Global Data Integration & Reporting.
Environment : ADF, Databricks, Synapse, Azure SQL, Power BI, Git.
Role : Azure Data Engineer

Description:

Deckers Brands (UGG, Teva, Hoka One) required a **unified data integration and reporting platform** to consolidate retail, ERP, and e-commerce data across regions. The goal was to provide **real-time insights into sales, inventory, and supply chain** while ensuring scalability for global operations. The project modernized Deckers' analytics landscape by building a **centralized data hub in Azure**, improving decision-making and operational efficiency.

Roles & Responsibilities:

- ✓ Designed and deployed **dynamic ADF pipelines** to extract and load data from APIs, on-prem databases, and cloud storage into Synapse Analytics.
- ✓ Developed **PySpark notebooks in Databricks** for complex transformations, cleansing, and aggregations.
- ✓ Implemented **incremental load strategies & CDC mechanisms**, enabling near real-time reporting.
- ✓ Created **partitioned and indexed tables** in Azure SQL, reducing query latency by 40%.
- ✓ Integrated **legacy SSIS packages** into ADF for smooth hybrid migrations.
- ✓ Designed **semantic layer models in Power BI** for sales, supply chain, and finance dashboards
- ✓ Applied **RBAC using Azure AD**, ensuring secure, role-based access to sensitive retail data.
- ✓ Enhanced BI performance by improving **data refresh cycles and DAX query optimization**.

Project#2

Project : CSI – Azure Data Platform Modernization.
Environment : ADF, Databricks, Synapse, Azure SQL, Power BI.
Role : Azure Data Engineer

Description:

CSI's existing on-premises SQL-based ecosystem struggled with **scalability, performance, and governance issues**. The client wanted to modernize its analytics landscape by moving to **Azure Cloud**, enabling **self-service analytics, faster data processing, and better governance**. The project aimed at designing a **modern data platform with Medallion Architecture** to improve business intelligence and operational reporting.

Roles & Responsibilities:

- ✓ Migrated **on-premises SQL workflows to Azure** using ADF and Synapse Analytics.
- ✓ Designed and deployed **ADF pipelines** for batch and incremental ingestion from SQL Server, Excel, and flat files.
- ✓ Developed **Databricks PySpark transformations** with partitioning, bucketing, and performance optimization.
- ✓ Implemented **Delta tables** for efficient incremental processing and time-travel capabilities.
- ✓ Built **fact and dimension tables** in Synapse for BI consumption and analytics.
- ✓ Standardized processing using **Medallion Architecture (Bronze, Silver, Gold layers)**.
- ✓ Configured **Azure Key Vault** for secure credential storage and integrated it with ADF pipelines.
- ✓ Automated **Power BI refreshes** using REST APIs, ensuring up-to-date dashboards.
- ✓ Implemented **CI/CD pipelines in Azure DevOps**, enabling automated deployments of ADF and Databricks artifacts.
- ✓ Created **data quality & monitoring frameworks**, reducing errors by 35% in reporting pipelines.

Education

- **Bachelor of Technology (B.Tech) – Electrical and Electronics Engineering**
Bapatla Engineering College, Bapatla
June 2017 – July 2021