VINAY KUMAR PENKE

Azure Data Engineer | Microsoft Fabric Data Engineer

☎ +91-7095339927   ✉ penke82000@gmail.com

Professional Summary:

Results-driven Azure Data Engineer with over 3 years of specialized experience in designing, developing, and optimizing scalable data pipelines and cloud solutions using Azure, Synapse, Databricks, and Microsoft Fabric. Certified in multiple Microsoft and Databricks tracks, adept in modern ETL/ELT architecture, metadata-driven pipeline implementations, and cloud data migration. Proven success leading complex migration projects, optimizing cloud spend, ensuring data quality, and driving operational excellence for major clients. Excellent communicator with experience developing training materials and documentation to facilitate seamless solution adoption.

SKILL SET:

Cloud & Big Data: Azure Data Factory, Azure Databricks, Azure Synapse Analytics, Microsoft Fabric OneLake , Azure Devops, Fabric Notebooks, Fabric DataPipelines, Medallion architecture.

Data Engineering: Metadata-driven pipeline design, ETL/ELT architecture, CDC, dimensional modeling, data warehousing ,Agile Methodology

Programming: PySpark, Python, SQL

Optimization: Cost reduction, query/performance tuning, delta tables, incremental & full loads, partitioning

EXPERIENCE:

Project 1

- ➢ Employer : Deloitte Consulting India Private Limited
- ➢ Client   : Sazerac Company
- ➢ Duration   : 02/2023- Present

Roles & Responsibilities: (Azure Data Engineer):

- Designed, developed, and maintained metadata-driven Azure Data Factory pipelines and Databricks notebooks, enabling scalable, reusable, and automated ingestion, transformation, and loading of diverse data sources into Azure Synapse Analytics.
- Built parameterized, generic data pipelines orchestrated via metadata—empowering quick onboarding of new sources, easier configuration changes, and minimal manual effort.
- Engineered end-to-end ETL architecture: from staging and transformation through loading of Dimension and Fact tables, handling both incremental and full loads.
- Developed robust ETL processes in Databricks Delta tables, supporting CDC (Change Data Capture), nullable primary keys, and efficient upserts (insert, update, delete).
- Implemented automated alerting and notification systems in ADF and DevOps, driving prompt incident response and enhanced operational reliability.
- Led migration and CI/CD automation of SQL objects, Databricks notebooks, and ADF pipelines using Azure DevOps, increasing deployment efficiency and reliability.
- Drafted detailed implementation guides and training documents ensuring sustainable adoption and seamless handover.
- Managed thorough end-to-end testing (unit, SIT, UAT), troubleshooting, data profiling, and SQL debugging in production.

- Enhanced query performance via materialized views, indexes, partitions, and rigorous data quality and reconciliation routines.

(Fabric Data Engineer):

- Led a proof-of-concept migration to Microsoft Fabric OneLake using metadata-driven Fabric notebooks and pipelines, achieving ~30% reduction in cloud billing costs.
- Developed scalable, metadata-driven Fabric notebooks, enabling incremental, automated data loads (file-based and table-based) and seamless pipeline scaling.
- Spearheaded migration of ADF pipelines to Fabric pipelines and conversion of Databricks code to Fabric notebooks, improving maintainability and performance.
- Built robust, bi-directional Copy Data pipelines between Fabric Lakehouse and Azure Synapse, supporting hybrid data flows and enterprise analytics needs.

TRAINING AND CERTICATIONS:

- Certified in **DP-203**: Microsoft Certified: Azure Data Engineer Associate
- Certified in **Databricks** Certified Data Engineer Associate
- Certified in **DP-700**: Microsoft Certified: Fabric Data Engineer Associate

Education:

- BSc Mathematics from Adikavi Nannaya University,   2019-2022   With CGPA 8.26
- Intermediate Education from PriyaDharshini Junior college, 2017-2019   With CGPA 8.86
- High School Education from Bhaskar's High School,   2017   With CGPA 9.2

Interest & HOBBIES:

- Badminton
- Long drives
- Traveling