KUNAL SAWANT

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Azure Data Engineer with 3+ years of experience in designing and implementing scalable data pipelines and ETL workflows using **Azure Data Factory**, **Databricks**, and **PySpark**. Proficient in managing and optimizing data storage solutions with **Azure Data Lake Storage**, **Blob Storage**, and **Synapse Analytics**, along with strong programming skills in **Python**, **SQL**, **Pandas**, and **NumPy** for data transformation and automation. Experienced in implementing secure and efficient solutions using **Azure Key Vault**, and integrating CI/CD processes through **Azure DevOps** and **Git/GitHub**. Adept at developing **Power BI** dashboards for business insights and reporting, with hands-on experience in **Agile** environments using **Jira**. Focused on ensuring data quality, performance optimization, and delivering robust, business-ready data solutions across the Azure ecosystem.

TECHNICAL SKILLS

• Python	• Data Bricks	• Blob Storage	• Git & Github
• SQL	• Data Factory	• Key Vault	• Numpy
• PySpark	• Synapse Analytic	• Azure DevOps	• Pandas
• Azure	• Data Lake Storage	• Jira	• Power BI

WORK EXPERIENCE

Senior Data Engineer | Infosys, Pune   **01/2024 – Present**
Domain: Automotive

- Designed and implemented end-to-end data pipelines using Azure Data Factory (ADF) to ingest structured and semi-structured data from on-premise systems, APIs, and automotive telematics sources into Azure Data Lake Storage Gen2.
- Built and maintained a Medallion Architecture (Bronze, Silver, Gold layers) using ADLS and Azure Databricks to enable scalable, modular, and reliable data processing.
- Developed PySpark-based transformation logic in Azure Databricks to cleanse, standardize, and enrich raw automotive datasets (vehicle diagnostics, sensor data, warranty claims).
- Optimized data processing performance by implementing partitioning, caching, Delta Lake optimizations (Z-ordering, vacuum, auto optimize), reducing query time by up to 30%.
- Designed curated Gold layer data models to support Power BI dashboards for fleet performance, predictive maintenance, and sales analytics reporting.
- Implemented CI/CD for data pipelines using Azure DevOps, enabling automated deployment of ADF pipelines, Databricks notebooks, and infrastructure across Dev, QA, and Prod environments with version control and release management.
- Performed root cause analysis and performance tuning of Spark jobs by optimizing joins, broadcast strategies, file sizes, and cluster configurations, resulting in improved pipeline stability and reduced execution cost.

Junior Data Engineer | Infosys, Bangalore   **11/2022 – 12/2023**
Domain: Automotive

- Implemented incremental data loading using watermarking and Change Data Capture (CDC) techniques to ensure efficient and cost-effective pipeline execution.
- Integrated Azure SQL Database and Synapse Analytics for structured data warehousing and enabled high-performance analytical querying for business users.
- Automated pipeline monitoring and alerting using Azure Monitor and Log Analytics, ensuring proactive issue detection and reducing data downtime.
- Enforced data governance and security using Azure Key Vault, RBAC, Managed Identities, and Data Masking, ensuring compliance with enterprise security standards.
- Collaborated with cross-functional teams (business analysts, data scientists, and domain SMEs) to translate automotive business requirements into scalable Azure-based data engineering solutions.
- Designed and maintained Delta Lake tables with schema evolution and ACID compliance to ensure reliable data consistency across Bronze, Silver, and Gold layers.
- Implemented data quality checks in the Silver layer using PySpark to ensure reliable downstream reporting.

EDUCATION

Bachelor of Engineering in Computer Science   **08/2016 – 07/2022**
Atharva College of Engineering
CGPA: 7.57

CERTIFICATIONS

- Microsoft Certified: Azure Data Engineer Associate
- Databricks Certified: Data Engineer Associate
- Databricks Certified: Data Engineer Professional