SREENATH

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SUMMARY

Innovative **Senior Data Engineer** with over 6 years of technical experience, specializing in architecting and migrating large-scale data ecosystems within **Azure Databricks** and **Synapse**. Expert in **Medallion Architecture**, **PySpark**, and **Delta Lake**, with a proven track record of remediating 200+ legacy pipelines and implementing **Unity Catalog** for enterprise-grade governance. I excel at optimizing complex ETL workflows using **Auto Loader** and **Delta Live Tables (DLT)**, consistently reducing processing latencies by up to 35% and automating orchestration for 100+ daily jobs. A deadline-driven engineer with a strong R&D background, dedicated to delivering high-performance, real-time data solutions and scalable cloud infrastructures for global clients.

EXPERIENCE

Analytics Senior Analyst

Accenture, India **July 2024 - Present, Bengaluru**

- Spearheaded end-to-end data pipeline migrations, successfully transitioning legacy workflows from DataStage and Talend to a modern Azure Databricks ecosystem, architecting scalable data solutions from the ground up.
- Designed and implemented a Medallion Architecture (Bronze, Silver, Gold layers) within Databricks, standardizing data cleansing, transformation, and aggregation for downstream analytics.
- Engineered scalable ingestion frameworks utilizing Databricks Auto Loader and Fivetran to process diverse file formats (CSV, XLSX) and raw data sources, handling over 500 million records monthly.
- Developed and maintained declarative ETL pipelines using Delta Live Tables (DLT) for both streaming and batch data, reducing pipeline processing time by 35% across 12 concurrent projects.
- Executed a massive remediation initiative, migrating and refactoring approximately 100,000 legacy Hadoop-based pipelines to Azure Synapse using heavily abstracted, custom-built PySpark declarative frameworks.
- Leveraged Unity Catalog within the Databricks environment to enforce centralized data governance, ensuring robust access control, data lineage tracking, and strict regulatory compliance.
- Refined data validation and continuous monitoring processes for large-scale PySpark workloads, bolstering data accuracy and enabling seamless cross-team collaboration on regulatory reporting frameworks.

Senior Data Engineer

Cognizant Technology Solutions, India **December 2020 - July 2024, Bengaluru**

- Executed complex workload migrations from Azure Synapse and Qlik Sense to Azure Databricks, reverse-engineering legacy T-SQL and Qlik scripts into highly optimized PySpark and Spark SQL.
- Architected an advanced Change Data Capture (CDC) framework leveraging Delta Lake, utilizing `MERGE` operations and Time Travel features to perform efficient incremental data processing on source and target tables.
- Optimized cluster performance and pipeline execution speeds to meet stringent SLAs by applying advanced Databricks optimization techniques, including Z-Ordering, data partitioning, Vacuuming, and broadcast joins.

- Designed scalable orchestration architectures utilizing Azure Data Factory (ADF) and native Databricks Workflows, automating 120+ daily ETL jobs and reducing manual scheduling dependencies by 83%.
- Integrated CI/CD practices using Databricks Repos and Git source control to standardize version management, streamlining deployment cycles and strengthening cross-functional team collaboration.
- Developed proactive pipeline monitoring and anomaly detection across 90+ production ETL jobs, integrating diagnostic PySpark scripts with Azure Monitor to achieve a 42% reduction in incident response times.

R&D Developer

Ashtrix Robotics & Research Centre, India **July 2020 - January 2021, Chennai**

- Engineered and deployed proprietary internal software tools that optimized R&D workflows, resulting in a 40% measurable increase in team productivity across hardware-software integration cycles.
- Collaborated within a global R&D division to design and deliver end-to-end robotics solutions, bridging the gap between high-level AI algorithms and low-level embedded systems.
- Developed real-time firmware and software interfaces for international clients, ensuring seamless communication between sensors, actuators, and core processing units.
- Contributed to the full lifecycle development of AI-driven robotics projects, from initial prototyping and hardware selection to final software deployment and field testing.
- Architected cross-platform integration modules for embedded systems, streamlining data acquisition from hardware sensors for real-time AI inference and analysis.

EDUCATION

Bachelors in Electronics and Communication

Kingston Engineering College, Vellore, India • Vellore, India • 2016 - 2020

CERTIFICATIONS

Azure Data Engineer Associate

Microsoft • 2025

Databricks Certified Data Engineer Professional

Databricks • 2024

Microsoft Certified: Azure AI Fundamentals

Microsoft • 2023

SKILLS

Databricks, SQL, QlikSense

Python/Pyspark, Computer Vision, HTM

Azure, E2E, Azure Databricks, Azure Data Factory, Synapse

Linux/Shell scripting, Linux, windows

Generative AI, Artificial Intelligence Systems, GenAI, LLMs, Vector, Transformers