

Vignesh Nadar

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PROJECTS

SaaS Vendor Health Monitoring Pipeline | AWS, Databricks, Unity Catalog, PySpark, SQL, Power BI

- Built a resilient serverless ingestion pipeline using **AWS Lambda** and **EventBridge** to poll 6 third-party status APIs every 10 minutes, incorporating per-vendor failure isolation, and least-privilege IAM security controls.
- Designed a Databricks **Medallion Architecture** via Unity Catalog and **Auto Loader**, applying **window functions** across 5 Silver tables to isolate true status transitions and minimize noise.
- Engineered a Gold layer **star schema** (7 fact tables, 2 dimensions) to calculate uptime and incident duration differentiating planned maintenance from outages and connected it to **Power BI** via a Databricks SQL Warehouse.

Payment Analytics Data Warehouse | Databricks, AWS S3, Delta Lake, SQL, Power BI

- Architected a Databricks **medallion data warehouse** (Bronze/Silver/Gold) ingesting 13.3M+ financial transactions across 12 source tables, building a year/month partitioned **star schema** (2 facts, 7 dimensions) to accelerate query performance.
- Engineered **15 Silver-layer data quality checks** for nulls, duplicates, and referential integrity, uncovering **660K misclassified refunds** and resolving a critical cross-system identity resolution failure.
- Deployed Unity Catalog-managed Gold tables to **AWS S3** with IAM authentication, connecting a **Power BI dashboard** via DirectQuery (Databricks SQL Warehouse) to analyze seller performance.

EXPERIENCE

eClerx Services Pvt Ltd

Nov. 2024 – Jul. 2026

Analyst

Airoli, Navi Mumbai

- Developed and executed SQL data validation scripts to clean, deduplicate, and standardize **6,000+** lead records, systematically resolving null values, schema inconsistencies, and formatting errors; delivered sanitized datasets to cross-functional teams and built custom reports, driving **\$800K+** in revenue pipeline.
- Engineered data pipelines in Excel using **VLOOKUP, Pivot Tables, and Conditional Formatting** to automate cleaning, transformation, and reporting across large datasets, ensuring **95% reduction in data discrepancies** through rigorous validation and reconciliation

SKILLS

Programming: SQL, Pyspark, Python, Bash

Technical Skills: Databricks, AWS (S3, IAM, Lambda, EventBridge), Git, Power BI, MS Excel, Data Pipelines, Data Modeling, Medallion Architecture, Data Profiling, Query Optimization

EDUCATION

SIES College of Arts Science and Commerce

Aug. 2022 – Oct. 2024

Master of Science in Information Technology

Nerul, Navi Mumbai

CERTIFICATIONS

- Databricks Certified Data Engineer Associate
- Accenture Data Analytics and Visualization Job Simulation
- HP Agile Project Management Certification