LAHIRU NIROSHAN SATHSARA



Database Administrator | Data Analyst — BI & Management Reporting

Moratuwa, Sri Lanka | lahirusathsara671@gmail.com | +94 76 154 5631 | linkedin.com/in/lahiru-niroshan | github.com/Lahiru1Niroosh

PROFESSIONAL SUMMARY

Database Administrator with production experience in enterprise database systems, transitioning into data analytics and business intelligence. Built Power BI/DAX dashboards and forecasting models across logistics and marketplace domains, including a shipment-analytics platform modeling 50,000+ records with live cost data. Strong Excel foundation (PivotTables, VLOOKUP) and daily experience ensuring data accuracy across production systems and stakeholder reports.

TECHNICAL SKILLS

- **Data Visualization & Analytics** : Tableau, Power BI, Superset, Matplotlib, Adv. Excel (VLOOKUP, Pivot Tables)
- **Programming & Data Processing** : Python (Pandas, NumPy, PySpark), SQL, Java, R, C++
- **Data Engineering & Streaming** : Kafka, Spark, Spark Streaming, Airflow, ETL/ELT, Medallion Arch.
- **Databases** : Oracle 19c/23ai, PostgreSQL, MySQL, MongoDB, SQLite, DuckDB
- **Cloud & DevOps** : Oracle Cloud Infrastructure (OCI), AWS, Azure, Docker, Linux, Bash, Git
- **Machine Learning** : Scikit-learn, TensorFlow, PyTorch, Statistical Modeling
- **Generative AI & Agents** : Hugging Face Transformers, Multimodal AI, CrewAI

PROFESSIONAL EXPERIENCE

Database Administrator | VS Information Systems, Colombo *Apr 2025*

- Administer Oracle 19c and 24ai production databases across 4 servers supporting core banking systems, sustaining 99.9% uptime with zero unplanned data-integrity incidents
- Diagnose and resolve slow-running queries by analyzing system logs and execution plans, directly improving response times for downstream operational reporting
- Built and maintain automated shell-script monitoring for daily system health reporting, catching data-accuracy issues before they reached production reports
- Own RMAN backup/restore strategy and Oracle Cloud Infrastructure (OCI) database instance management for 4 production servers
- Write and review SQL queries daily to extract and validate production data, catching discrepancies before they reached stakeholder-facing reports

IT Support Engineer | NDB Securities, Colombo *Sep 2024 – Aug 2025*

- Provided IT support and executed network tasks for financial securities operations
- Performed system health monitoring and managed hardware/software troubleshooting logs, sustaining 99.9% uptime

Sales Executive | FlyLanka, Colombo *Aug 2023 – Aug 2024*

- Managed end-to-end booking data and international traveler logistics for foreign clients using online data platforms

PROJECTS

RevenueLift — A/B Test Analysis & Decision Platform

Python, SQL, DuckDB, SciPy/Statsmodels, Power BI, DAX

GitHub: github.com/Lahiru1Niroosh/revenuelift

- Designed and executed a full A/B test analysis pipeline for a simulated e-commerce checkout experiment - power analysis for sample sizing, significance testing, guardrail checks (refunds, support tickets, page load time), segment analysis, and Benjamini-Hochberg multiple-testing correction
- Delivered a business-facing Power BI decision report (executive summary, segment breakdown, guardrail metrics) recommending a "Ship with Caveats - Mobile Only" rollout, projecting ~$857K in additional annual revenue from the mobile-segment lift

DataGuard — Data Integrity Reconciliation Engine | Live

Python, PostgreSQL, Docker, xxhash, Streamlit

GitHub: github.com/Lahiru1Niroosh/dataguard-insights

- Built a Python-based reconciliation platform to detect and troubleshoot silent data drift between a production database and its downstream replica, containerized and orchestrated with Docker Compose
- Designed a 6-level validation hierarchy (schema -> count -> aggregate -> partition -> hash -> row) that isolates the exact point of failure, cutting full-comparison cost 2.3x–6.4x by gating expensive checks behind cheaper ones; verified via 13 automated tests with 100% precision/recall against a labeled fault-injection suite

Executive Logistics Intelligence Suite | Live

Python, DuckDB, Star Schema, Streamlit, Facebook Prophet

GitHub: github.com/Lahiru1Niroosh/logistics-sales-platform

- Architected a star-schema OLAP data model (Fact Shipments + Dimension Services) integrating live fuel-price market data via API, enabling margin analysis across 50,000+ shipment records
- Built a Facebook Prophet forecasting engine that surfaced a 12% projected APAC volume surge, plus a what-if simulation module to stress-test margins against fuel-price volatility

Uber Eats Sri Lanka — Marketplace Analytics Platform | Live

Python, SQLite, Scikit-learn, Streamlit, Plotly

GitHub: github.com/Lahiru1Niroosh/uber-eats-sl-analytics-Project

- Built an end-to-end analytics system modeling 70,000+ orders across 200 restaurant partners and 300 couriers, engineering SQL-based KPI tracking (82% conversion rate) and a pricing-elasticity model (10% price rise -> ~5% order drop)
- Trained a Random Forest classifier across 8 behavioral features to flag at-risk restaurant partners (~15% high-churn-risk), deployed via an interactive Streamlit dashboard

EDUCATION

Bachelor of Science (Hons) in Information Technology *2022 – 2026*

Sri Lanka Institute of Information Technology (SLIIT)

CERTIFICATIONS

- Oracle Cloud Infrastructure 2025 Certified Foundations Associate - Link
- Oracle Cloud Infrastructure 2025 AI Foundations Associate - Link
- Oracle Fusion AI Agent Studio Foundations Associate - Link
- AWS Academy Graduate — Cloud Web Application Builder - Link
- AWS SimuLearn: Databases in Practice - Link
- Introduction to Azure Virtual Machines — Microsoft - Link

LANGUAGES

Sinhala – Native

English - Full Professional Proficiency