

# THAADSHAAYANI RASANEHRU

Data Engineer | Azure, SQL, Python | MSc in Data Science

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## PROFESSIONAL SUMMARY

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Data Engineer with hands-on experience building and operating production-grade data platforms and pipelines for U.S. enterprise clients. Experienced in supporting zero-failure system migrations, managing databases, and delivering reliable data infrastructure for analytics and AI use cases.

Strong background in owning data pipelines end-to-end, from ingestion and transformation to serving trusted datasets for reporting and decision-making. Comfortable working across data, analytics, and product teams to enable reporting, dashboards, and machine learning workflows.

## CORE SKILLS & TOOLS

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- **Data Engineering & Pipelines:** ETL/ELT Pipelines, Data Ingestion & Transformation, Data Validation, Batch Processing
- **Programming & Querying:** Python, SQL, Data Processing, Query Optimization
- **Cloud & Data Platforms:** Microsoft Azure (Azure SQL, Data Factory, Virtual Machines, Blob Storage), AWS, Cloud security fundamentals, Networking basics
- **Big Data & Distributed Processing:** Apache Spark, Databricks (PySpark, SQL)
- **Analytics Enablement & Reporting:** Data Modeling, BI Support, Power BI, Streamlit, Looker Studio

## WORK EXPERIENCE

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Data Engineer

Aug 2020 – Nov 2025

INVORG - (US-based Consulting Firm)

**Role Summary:** Supporting production-grade data platforms for U.S. enterprise clients delivering reliable ETL pipelines, Azure infrastructure, and zero-failure migrations to support analytics workloads.

**Environment scale:** 25+ enterprise & municipal clients | multi-environment (Dev/QA/UAT/Prod)

### Key Contributions:

- Led and executed full-cycle legacy-to-modern system migrations for 10+ U.S. enterprise clients with zero production failures, handling live database backups, environment provisioning, configuration optimization, and pre-go-live validation to ensure downtime-free transitions.
- Designed, developed, and optimized ETL pipelines using APIs, Python, SQL, and Databricks (PySpark) to support analytics reporting, KPI generation, and downstream AI use cases.
- Managed Azure SQL Databases and Virtual Machines across Dev, QA, UAT, and Production environments, ensuring data availability, stability, and controlled releases.
- Automated and streamlined Azure cloud deployments, reducing environment setup time and infrastructure costs by approximately 30%.
- Developed and maintained SOPs for data and database lifecycle management, covering migration, backup, release processes, and technical documentation.
- Implemented automated Python + SQL KPI pipelines supporting reporting and operational dashboards for 25+ municipal clients, reducing manual reporting effort by 35%.
- Integrated cloud storage solutions, including Azure Blob Storage, to support scalable data processing and long-term data retention.
- Supported analytics and AI teams by ensuring clean, reliable, and well-structured datasets for dashboards, forecasting, and ML-enabled applications.

## Earlier Experience & Internships

**Technical Officer | Sri Lanka Broadcasting Corporation, Colombo** **June 2019 – July 2020**

Maintained and analyzed system performance records and operational data logs to support monitoring, reporting, and operational decision-making in a broadcast environment.

**Command Centre Executive | Tenaga car parks (Pvt) Ltd, Colombo** **Dec 2017 – Dec 2018**

Monitored performance data from GSM-based parking systems and supported troubleshooting and operational analysis of large-scale, real-time systems.

**Professional Training Intern | Sri Lanka Telecom (Pvt) Ltd, Jaffna** **March 2016 – Sep 2016**

Assisted with data documentation, testing, and validation for ADSL and FTTH network deployments.

## RECENT PROJECTS

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### **MuniLogic CE Cloud Platform Migration - U.S. Municipal Clients | 2025**

End-to-end migration of legacy data systems to Azure cloud platforms, delivering zero-failure cutovers and stable production data environments.

- Led end-to-end migration of legacy on-prem and cloud-hosted databases to Azure-based data platforms for 10+ U.S. municipal clients.
- Designed migration workflows including live backups, schema validation, environment provisioning, and post-migration verification.
- Managed Azure SQL Databases, Virtual Machines, and Blob Storage across Dev, QA, UAT, and Production environments.
- Ensured zero-downtime cutovers & reliable data availability for analytics & downstream AI workloads.

### **CitySearch AI – Data Platform & RAG-Enabled Analytics System | 2025**

Built an AI-powered natural language search system using Text-to-SQL, semantic search, and RAG to analyze demographic, economic, and lifestyle data for 600+ US cities.

- Built a scalable data platform enabling natural language querying over structured city datasets using Text-to-SQL and semantic search.
- Engineered data ingestion, normalization, & storage pipelines to support querying for 600+ US cities.
- Integrated embeddings-based retrieval and RAG workflows to serve analytics-ready city profiles.
- Delivered a Streamlit application supporting query execution, visualization, and data quality handling.

## EDUCATION

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- **MSc in Data Science | 2024**  
Cardiff Metropolitan University - UK
- **BEng (Hons) in Electronics & Communications | 2019 - 2020**  
University of Wolverhampton – UK
- **Higher National Diploma in Engineering (HNDE) | 2017**  
Sri Lanka Institute of Advanced Technological Education – Jaffna

## RECENT CERTIFICATIONS

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- Data Warehouse, The Ultimate Guide - Udemy
- Generative AI for Data Science Specialization - IBM

## PERSONAL DETAILS

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- Nationality: Sri Lankan
- Languages: English, Tamil
- Address: Dubai, United Arab Emirates (Al Rigga, Dubai - 00000)

References available upon request