

Rizwan Sarwar

Business Intelligence Engineer | **Power BI** | **Tableau** | **Looker Studio** | **ETL** | **Data Modeling** | **Data Analysis** |

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Portfolio: rizwansarwar.com

Professional Summary

Business Intelligence Engineer with 5+ years of experience building end-to-end data solutions including ETL pipelines, data modeling, and dashboards using Power BI and Tableau. Proven track record of automating reporting systems and delivering actionable insights across healthcare, retail, and recruitment industries.

Key Projects

End-to-End ETL & BI System (POSaBIT API Integration)

- Designed and developed a scalable ETL pipeline in Python to ingest data from 25+ REST API endpoints, handling complex nested JSON structures.
- Built a fully normalized PostgreSQL database (28+ tables) to support multi-domain analytics.
- Automated the entire reporting workflow, eliminating 100% manual data preparation.
- Implemented incremental data loading with scheduled refresh every 6 hours on AWS EC2.
- Optimized transformations using Pandas and SQLAlchemy for efficient processing of large datasets.

- Developed Tableau dashboards to analyze sales, inventory, and operational performance.
- Documented architecture, data models, and data dictionary for maintainability.

Impact: Reduced manual effort, improved reporting speed, and enabled real-time analytics

Enterprise Power BI Dashboard – UAE Retail Chain

- Developed a fully automated reporting system for a multi-location retail business
- Designed optimized data models to support high-performance reporting on large datasets
- Built dashboards tracking revenue, transactions, customer retention, employee productivity, and average transaction value
- Implemented advanced time intelligence (YTD, MTD, Last 7/30 Days, YoY comparisons) using DAX and custom date tables
- Migrated solution from Power BI Pro to Power BI Premium (Microsoft Fabric) to improve performance and scalability
- Enabled self-service analytics through dynamic filters and drill-down capabilities

Impact: Improved business visibility and enabled faster, data-driven decision-making

Automated Recruitment Analytics System

- Built end-to-end reporting solution integrating PostgreSQL with Power BI dashboards
- Developed ETL processes in Python to clean, transform, and standardize recruitment data
- Integrated Google Geocoding and Distance Matrix APIs to match candidates with job locations
- Designed role-based dashboards for recruiters and management to track pipeline and performance
- Automated reporting workflows to reduce manual effort and improve data accuracy

Impact: Increased recruitment efficiency and improved candidate-job matching

Healthcare Analytics Dashboard (Tableau)

- Consolidated Excel-based reporting into a centralized Tableau data model
- Automated data pipeline using Google Sheets to enable real-time updates
- Built dashboards to track patient payments, insurance claims, and provider performance
- Designed dashboard interface in Figma to improve usability and user experience
- Enabled analysis of patient trends, insurance performance, and operational metrics

Impact: Improved financial visibility and streamlined reporting process

Government Pension Reporting System – Ministry of Guyana

- Developed 8 interactive dashboards to monitor pension distribution and financial transactions
- Integrated MySQL database with Tableau for accurate and real-time reporting
- Built analytics for merchant performance, payment tracking, and fund distribution
- Designed user-friendly dashboard interface aligned with client requirements
- Deployed dashboards with automated refresh using Tableau Server and Tableau Bridge

Impact: Enhanced transparency and monitoring of financial operations

Professional Experience

Business Intelligence Engineer / Data Analyst – DataBI LLC
May 2022 – July 2025

- Developed automated reporting systems across multiple industries
- Built interactive dashboards to track KPIs like revenue, retention, and productivity
- Designed scalable data models integrating multiple data sources
- Implemented ETL pipelines and automated refresh workflows

Technical Skills

BI Tools: **Power BI, Tableau, Looker Studio**
Databases: **PostgreSQL, MySQL, SQL Server**

Programming: **Python (Pandas, NumPy, Requests & SQLAlchemy), DAX**

Technologies: **ETL, Data Modeling, Data Cleaning,**

Cloud & Tools: **AWS, Git/GitHub, Databricks**

Other: **Excel, REST APIs, Google Sheets**

Certifications

Verify my certificate : [RizwanSarwar Credly](#)

Google Data Analytics Professional Certificate

Tableau Certifications

Microsoft Power BI – Maven Analytics

Python for Data Science – IBM

SQL for Data Science – Coursera

Education

Bachelor of Science in Computer Science (Silver Medalist)

2018 – 2022