

ALEX MUGO

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Senior Data Engineer

Profile

Experienced Data Engineer with 5+ years of expertise in SQL data warehouses, stored procedures, and data pipeline management. Adept at delivering actionable insights through dynamic dashboards and optimizing performance using tools like Power BI, Tableau, and Python visualization libraries (e.g., Matplotlib, Seaborn, Plotly). Proficient in Google Cloud Platform (GCP), including BigQuery, Google Cloud Storage, and Pub/Sub. Skilled in exploratory data analysis (EDA) and data storytelling to provide compelling insights for diverse audiences. Focused on improving data integration, automating processes, and ensuring efficient cloud data solutions.

Skills

- Proficiency in Power BI, Tableau, and Python visualization libraries (Matplotlib, Seaborn, Plotly).
- Designing interactive dashboards and reports
- SQL Data Warehouses (MS SQL, Oracle, PostgreSQL)
- Stored Procedures and SQL Optimization
- SSRS (SQL Server Reporting Services)
- Familiarity with machine learning and predictive analytics techniques.
- Exploratory Data Analysis (EDA) and trend identification.
- Data storytelling and user-centric visualization design.
- Hands-on experience with SQL for data extraction and manipulation.

Professional Experience

Lead Data Analyst

Tradecare Africa Ltd | November 2021 – December 2024

- Designed and optimized SQL data warehouses, improving data retrieval speed by 30% and reducing operational costs through efficient stored procedures.
- Developed interactive dashboards in Power BI and Tableau, enhancing decision-making capabilities by simplifying complex datasets.
- Performed exploratory data analysis (EDA) to uncover trends and deliver actionable insights.
- Improved SQL query performance for MS SQL, Oracle, and PostgreSQL by implementing advanced query optimization techniques, which reduced report generation time by 50%.

Junior Data Analyst

EastAfricat Communications | March 2017 – August 2021

- Created dynamic dashboards and visualizations using Superset, Power BI, and Python libraries to communicate insights effectively to both technical and non-technical stakeholders.
- Leveraged Google Cloud Platform (GCP), implementing BigQuery, Google Cloud Storage, and Pub/Sub for data storage and processing, resulting in a 25% improvement in data throughput.
- Automated ETL processes to improve data accuracy and integrity, reducing system downtime by 50%.
- Ensured system scalability by automating data workflows, contributing to a 50% reduction in system downtime.

Data Analyst Intern

Exceptional Africalla (K) Ltd | October 2016 – February 2017

- Led the migration of SQL data warehouses to a more scalable cloud-based infrastructure, reducing data storage costs by 35% and improving system performance by 20%.
- Built and maintained dynamic dashboards using Superset, improving data visualization, which enabled stakeholders to identify key business trends and reduce decision-making time by 25%.
 - Developed data pipelines with Airflow to automate ETL processes, streamlining data extraction, transformation, and loading, cutting data processing times by 50%.

Education

Bachelor of Science in Computer Science

States International University
Nairobi, Kenya

Associate Data Science and Full-Stack Developer

Moringa School
Nairobi, Kenya