Data Analyst/Business Analyst

ADRIAN JULIUS ALUOCH

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Kisumu, Kenya, KE

Skills

- **SQL** (PostgreSQL, MySQL, Microsoft SQL Server, MariaDB)
- **Python** (Pandas, NumPy, Matplotlib, Seaborn, Altair, Plotly, SciPy, Statsmodels)
- **R** (tidyverse, dplyr, janitor, ggplot, ggpubr, shiny)
- **Microsoft Excel** (VBA, XLOOKUP, Conditional Formatting, Power Query, Pivot Tables, Power Pivot)

- **Google Sheets** (Data Validation, Query Function, Conditional Formatting, Pivot Tables)
- **Microsoft Power Bi** (Power Query, Data Modelling, DAX)
- **Tableau** (Tableau Prep, Calculated Fields)
- **Google BigQuery** (Data Ingestion, Data Modelling, SQL Queries, Data Warehouse)

Projects

ROAD ACCIDENTS IN KENYA – Personal Project – Kisumu, Kenya, KE   October 2024
- Analyzed road accidents data in Kenya to uncover patterns and risk areas using **Python** and crowdsourced data from Ma3Route.
- Utilized **geopy** to process geolocation data and **folium** to create interactive maps highlighting accident hotspots and trends.
- Compiled findings into a report with **ggplot** and **Quarto**, revealing a **60.06% reduction** in accidents (2018–2023).

REAL ESTATE PROPERTY LISTINGS ANALYSIS – Personal Project – Eldoret, Kenya, KE   November 2024
- Analyzed **100,000+ property listings** in **Nairobi**, revealing **apartments** dominate the market at **34.3%** of listings, followed closely by **houses** at **33.9%**.
- Identified **Ongata Rongai** as offering the best value at **Ksh 44,270/m²**, while **Kileleshwa** and **Karen** showed the highest average property prices (**Ksh 93M** and **Ksh 82.5M** respectively).

IMPACT OF AIRBNB ON NEIGHBOURHOODS – Personal Project – Kisumu, Kenya, KE   August 2024
- Analyzed Airbnb data to uncover trends, revealing **81.8% of listings** are Entire Homes, indicating a shift towards **profit-driven short-term rentals**.
- Identified **income disparities** between resident and non-resident hosts, with residents earning slightly more, though not significantly altering local wealth dynamics.
- Highlighted the platform's role in **reducing long-term housing availability**, driven by hosts with **multiple listings**, like Propr (331 units).

EPRA FUEL PRESS RELEASE ANALYSIS – Personal Project – Eldoret, Kenya, KE   September 2024
- Analyzed regional **fuel price disparities** using EPRA data, highlighting logistical factors like **transportation costs** and **infrastructure challenges** in remote towns (e.g., Mandera at Ksh 194.66).
- Identified a **2024 nationwide decline** in fuel prices, driven by global market shifts, government subsidies, and tax adjustments.

Work Experience

DATA ANALYST ATTACHEE – KEMRI-CGHR – Kisumu, Kenya, KE   May 2024 – August 2024
- Managed and maintained data using **Microsoft SQL Server**, ensuring data integrity and efficiency.
- Conducted statistical analysis utilizing **Python**, **R** and **Stata**, deriving insights to support research and operational decisions.
- Developed comprehensive data reports and visualizations using **Quarto**, effectively communicating key findings to stakeholders.
- Collaborated with a cross-functional team to streamline data workflows, improving organization's reporting processes.

Education

BACHELOR OF SCIENCE IN COMPUTER SCIENCE – Moi University – Eldoret, Kenya, KE   August 2025
Major: Data Analytics