

# Brian Muitiriri Mugo

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## Summary

Actuarial Science graduate (Second Class Honours, Upper Division) from Karatina University with hands-on data science training from WorldQuant University. Skilled in Python, R, Machine Learning, and Risk Modeling; experienced in Excel data processing and customer service from attachments at UNISON SACCO and Nakuru City Car Hire. Built a GitHub portfolio of four predictive modeling projects (so far) using real-world Kaggle datasets. Eager to apply my analytical and problem-solving skills.

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## Work Experience

### Attachment

#### Unison Sacco – Nyahururu, Kenya

##### May 2024 – August 2024

- Utilized Excel spreadsheets for data management and analysis, ensuring accurate record-keeping and efficient data processing.
- Provided excellent customer service by addressing inquiries and offering advice on Sacco products and services, ensuring customer satisfaction and retention.
- Accompanied the manager on field visits to schools, educating teachers about Unison Sacco's benefits and services, contributing to outreach and membership growth.
- Assisted in inspecting and verifying the Sacco's funds at Cooperative Bank of Kenya, ensuring financial accuracy and compliance.

### Assistant

#### Nakuru City Car Hire – Nakuru, Kenya

##### May 2023 – August 2023

- Corrective Rental Agreements, conditions and responsibilities between the customer and the car company.

- Vehicle inspection, pre-rental and post-rental reports.
  - Insurance documentation, processing insurance claims and managing accident reports.
  - Payment processing, rental charges.
  - I learnt how to maintain accurate and organized records to ensure smooth operations, excellent customer service and regulatory compliance with the car hire business.
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## Education

### Kenya Certificate of Secondary Education

Utumishi Boys Academy – Gilgil, Kenya

January 2017 – March 2021

### Bachelor's Degree of Science in Actuarial Science

*Second Class Honor's - Upper Division*

Karatina University – Karatina, Kenya

September 2021 – May 2025

### Applied Data Science Lab

WorldQuant University

June 2025 – August 2025

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## Personal Projects

### Data Science Portfolio

- GitHub: <https://github.com/mugobrian201/portfolio>
- I have developed a portfolio of four data science projects so far using Google Colab - Python (Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Plotly, Statsmodels) to analyze real-world datasets from Kaggle.
- Projects include real estate price analysis (Mexico, Buenos Aires), air quality forecasting (Beijing), and earthquake damage prediction (Nepal), showcasing skills in data cleaning, feature

engineering, visualization, and predictive modeling (Linear Regression, Logistic Regression, Decision Trees, AR/ARMA).

- Applied advanced techniques like hyperparameter tuning, residuals analysis, and walk-forward validation to deliver actionable insights for urban planning, public health, and disaster preparedness.

## **Skills**

English (Native), Kiswahili (Native), Programming & Tools: Python (Pandas, NumPy, Scikit-learn, Statsmodels, Matplotlib, Seaborn, Plotly Express), R programming, Google Colab (Jupyter Notebook), Data cleaning, Exploratory Data Analysis (EDA), Feature Engineering, Visualization, Machine Learning, Model Evaluation, Statistical Analysis, Microsoft Programs: MS Word, MS Excel, MS PowerPoint, Strong communication, Excellent problem-solving, Time Management, Analytical Thinking, Client relationship building, Data Organization, Collaboration, Adaptability.