

Brian Onyango Ohuru

Data Scientist

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Profile

Analytical and detail-oriented Data Analyst and Researcher with a strong foundation in statistical modeling, public health research, and data-driven decision-making. Proven experience in designing and managing databases, collecting, and analyzing health-related data, and supporting evidence-based program development in diverse settings. Adept at using tools such as Excel, R, Python, Tableau, Power BI, ODK, DHIS2, and KoboToolbox for data processing, visualization, and reporting. Passionate about using data to solve real-world problems and drive impactful public health interventions.

Education

Bachelor of Science in Statistics and Programming

Kenyatta University — *December 2023*

- Key Courses: Research Methodology, Demography & Vital Statistics, Bayesian Statistics, Time Series Analysis, Database Design & Development, Object-Oriented Programming, Multivariate Statistical Methods.

Kenya Certificate of Secondary Education (KCSE)

Oriwo Boys' High School — *November 2012*

Professional Experience

HealthStrat – Research Assistant

Nairobi, Kenya | *August 2024 – March 2025*

- Conducted data collection and Focus Group Discussions in marginalized urban areas, providing insights for community health interventions.
- Contributed to the development and management of databases for gender-focused research, ensuring swift and reliable data retrieval while maintaining 100% data accuracy.
- Developed interactive dashboards using Power BI and Tableau, delivering dynamic insights into the effectiveness of gender mainstreaming programs and identifying actionable trends across counties.
- Transcribed and digitized large datasets with zero data loss.
- Designed and implemented digital data collection tools (ODK Collect, KoboCollect), improving data efficiency by 30%.
- Ensured adherence to data confidentiality and ethical research standards in community-based projects in compliance with the Data Protection Act 2019.
- Managed gender research databases, ensuring 100% data accuracy and reliability.

Dobo Systems – Data Analyst Intern

Nairobi, Kenya | *Jan 2024 – May 2024*

- Collected, cleaned, and analysed health datasets with over 10,000 records using Excel, Python, and R, achieving 95% data accuracy.
- Designed study pools and conducted logistic regression analyses, delivering actionable insights that improved program targeting by 20%.
- Integrated public health data into BigQuery, streamlining the analysis of 1 million+ data points and reducing reporting time by 30%.
- Created interactive dashboards using Tableau and Power BI to provide real-time fraud monitoring and reporting.
- Designed and implemented algorithms to detect fraudulent transactions, leading to a 25% reduction in fraud-related losses over one year.

- Collaborated with cross-functional teams to establish fraud detection rules, improving accuracy and reducing false positives by 15%.
- Managed large-scale datasets with zero data loss and consistently delivered high-impact, clear, and concise reports.
- Analysed large datasets using SQL, Python, and R to identify patterns indicative of fraudulent activity

Care Kenya – CASCADE Project – *Field Data Collector*

Homabay County | *July 2023 – Oct 2023*

- Conducted household-level data collection using KoboCollect and ODK for a nutrition-focused project.
- Trained community health workers on digital data tools and ensured real-time data **syncing** and backup.
- Prepared clean, quality datasets for handover to the national team for program analysis.

Certifications & Trainings

- Certificate in Leadership Development and Mentorship – Kenyatta University
- Certified Public Accountant – Foundation Level
- Data Demand and Information Use in the HIV Program – Ministry of Health (NASCOP)
- Introduction to AI, Data Analysis using Excel, Data Entry - Ajira Digital Certifications
- Data Cleaning and Visualization with Python, DataCamp – 2023
- Data Anonymization – APHRC
- Data Quality Assurance – APHRC
- Data Privacy and Protection – APHRC
- Gender Transformative Programming - APHRC

Software Skills

- Data Analysis & Programming: Python, R, Advanced Excel, SPSS, ETL processes, Apache Spark, BigQuery, Airflow, Data warehousing, Jupyter Notebook
- Machine Learning: SVM, Decision Trees, k-NN, Naive Bayes, Random Forest, Classification, Logistic Regression
- Survey Tools: ODK Collect, KoboToolbox, SurveyCTO
- Data Visualization: Power BI, Tableau, Matplotlib, Seaborn
- Database Management: DHIS2, MySQL, PostgreSQL, MongoDB
- Statistical Techniques: Hypothesis Testing, Regression, Time Series, Sampling Methods
- Reporting Tools: MS Office, PowerPoint, Google Sheets/Docs

Soft Skills

- Communication: Strong verbal and written skills
- Teamwork: Effective collaboration in diverse teams.
- Leadership: Proven ability to motivate and guide.
- Problem-Solving: Skilled in resolving challenges
- Adaptability: Flexible under tight deadlines.
- Critical Thinking: Strong analytical capabilities

Referees

Mr. Timon Obure Odera
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