

# MICHAEL ONYANGO OUMA

## CONTACT

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📍 P.O BOX 6200, Nairobi Kenya.

## DATA ANALYST/STATISTICIAN

A detail-oriented data analyst with a passion for uncovering insights through data visualization and transforming data points into actionable business strategies. I bring 3+ years of experience working on data analysis projects, combining technical expertise with analytical problem-solving. Actively engaged in professional forums and challenges, including Kaggle and Twitter's #TidyTuesday, where I contribute to data-driven discussions and learn from peers. Proficient in data mining, statistical analysis, and programming, with strong skills in data cleaning, dashboard creation, and delivering insights that support data-informed decision-making.

## WORK EXPERIENCE

**DATA ANALYST CONSULTANT AT DALBERG RESEARCH, Apr 2021-Present,**  
*Two Rivers North Tower Lifestyle centre, Nairobi- Kenya.*

- Ensured the accuracy, completeness, and consistency of datasets by conducting thorough checks across various stages of the data lifecycle.
- Performed advanced data cleaning and statistical analysis using **SPSS, R, Excel, and STATA** to generate actionable insights.
- Accurately entered and managed data in platforms such as **ODK and Excel**, ensuring timely and efficient data processing.
- Conducted initial data coding to test and refine coding frameworks for open-ended responses and categorical variables.
- Compiled, reviewed, and categorized all open-ended responses for qualitative analysis.
- Authored comprehensive reports summarizing key findings, trends, and actionable recommendations for stakeholders.
- Developed and implemented **automated quality control mechanisms** to identify data inconsistencies and errors.
- Designed detailed codebooks to guide data coding and ensure uniformity in data interpretation.
- Created interactive and static data visualizations using **Python Notebook**, enabling stakeholders to easily interpret data insights.
- Developed and maintained a variety of reports, utilizing **VLOOKUP, pivot tables**, and other advanced Excel functions to streamline data summaries.
- Automated repetitive tasks and improved data processing efficiency by developing custom **VBA Macros** in Excel.

**ASSISTANT RESEARCHER AT Kenya Industrial Research & Development Institute,  
Jan 2020-Apr 2022, Kisumu, Kenya.**

- Created Questionnaire templates using Survey To Go. Assisted in scripting Questionnaires for data collection and processing.
- Collated, Queried, and cleaned data coming in from the field sites including flagging out inconsistencies and/ or errors arising from data obtained from the field as part of routine data checks.
- Performed various data manipulations, and analyses, and generated reports and tables as required.
- Built reports on day-to-day progress on the ongoing involved projects and reported to the Research Co-Coordinator.
- Cleaned and Processed data from fieldwork using SPSS.
- Generated meaningful custom tables as part of the data processing.

**JUNIOR DATA ANALYST AT JKUATES, Jan 2020-Apr 2022,  
Juja, Kenya.**

Intern role within the data analytics team, delivering insights to optimize business operations:

- Designed SQL queries to manage and retrieve data, improving data accessibility.
- Collaborated with the Data Science team to build predictive models, resulting in an increase in forecast accuracy for clients.
- Monitored and reported on data-related **KPIs**, such as data accuracy rates, processing times, and project deliverable timelines, ensuring optimal performance and adherence to standards.
- Implemented a data visualization solution using PowerBI for the sales team to understand sales trends.
- Pulled data from MySQL and Metabase and handled all the ETL from the DB to run the model to obtain a decision.

**EDUCATION BACKGROUND**

*Sept 2020 to Apr 2024    BSc. BIOSTATISTICS       JKUAT University Graduated*

*Jan 2021 to Apr 2021   DATA SCIENCE WITH R   JKUATES*

*Jan 2021 to Apr 2021   DATA SCIENCE WITH PYTHON JKUATES*

*Jan 2024 to Apr 2024   SQL       W3school*

**SPSS, STATA AND ADVANCED EXCEL       DALBERG RESEARCH**

### **TECHNICAL SKILLS**

- Expertise in using Microsoft Excel
- Proficiency in statistical analysis tools and software (IBM SPSS, STATA)
- Proficiency in visualization tools and software (Microsoft Power BI)
- Proficiency in programming languages (R and Python) i.e Data Wrangling
- Good knowledge of SQL and ability to work with data in relational and NoSQL databases
- Ability to access and extract data from data repositories (Data marts, Data warehouses, Data lakes and Data pipelines)
- Scripting questionnaire using Survey to go and Survey Monkey.

### **FUNCTIONAL SKILLS**

- Proficiency in statistics tool  
Analyze data, validate the analysis, identify fallacies and logical errors
- Analytical skills  
Research and interpret data, theorize and forecast
- Problem-solving skills  
Come up with possible solutions for a given problem
- Probing skills  
Identify and define the problem statement
- Data visualization skills  
Create clear and compelling visualizations using Matplotlib and Plotly to present the analysis
- Project management skills  
Manage the process, people, dependencies and timelines.

### **ACHIEVEMENTS**

Mentored junior associates in the Quality Control department at Dalberg Research, guiding statistical methodologies, data analysis techniques, and study designs. This resulted in enhanced research quality and productivity.

### **STRENGTHS**

#### **1. Analytical Thinking**

Experienced in breaking down complex problems into smaller manageable parts, resulting in a comprehensive solution.

#### **2. Technical Proficiency**

Proficient in data management and predictive model development using SQL, Python, and R.

**REFEREES**

Dr. Caroline Mugo,  
Department of Statistics and Actuarial Science,  
Jomo Kenyatta University of Agriculture and Technology.

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