

Mwanza Wambua

Data Scientist

CONTACT

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SKILLS

- Microsoft Office proficiency
- Leadership
- Teamwork
- Report-writing
- Leadership excellence
- Networking
- Database administration
- Data analytics
- Data Visualisation
- Data cleaning
- Excel proficiency
- SQL
- Data Collection (KoboCollect , SurveyCTO, REDCap, ODK, Qualtrics)
- Power BI
- SQL databases
- Data visualization tools
- Advanced Excel usage
- PYTHON
- Data Modelling
- Data processing
- BI tools knowledge
- Logical thinking
- Python for data science
- Big Data analytics
- Qualitative analysis
- Predictive analysis
- Data mining techniques
- Excel VBA
- Statistical analysis plans
- Interactive listening
- Research proficiency

Results-driven Data Analyst with over five years of experience in data management, quantitative and qualitative analysis, and programme evaluation across development initiatives. Proficient in advanced analytics tools (SQL, Power BI, Python) and skilled in designing data-driven strategies, monitoring and evaluation (M&E) frameworks, and stakeholder collaboration. Holds a BSc in Mathematics and Computer Science and postgraduate training in Data Science, Policy Formulation, and Resource Mobilization. Passionate about leveraging analytical expertise to drive sustainable development, with a proven track record in delivering actionable insights for economic and social impact. Adept at capacity building, project coordination, and communicating complex data to diverse audiences. Key Skills include the following: - Data Analysis, Data Visualization, Monitoring and Evaluation (M&E), Data Collection and Tool Coding, Statistical Analysis, Data Management, SQL, Power BI, Python, Stakeholder Engagement, Policy Formulation, Capacity Building, Project Management, Sustainable Development, Data-Driven Decision Making, Digitization & Mapping

EXPERIENCE

MERL Officer

Makueni Development Trust

- 02/2022 - Current
- Designed and implemented MERL plans aligned with USAID Ubora Mashinani standards, integrating custom indicators to capture local impacts, enhancing programme accountability.
 - Conducted quantitative and qualitative analyses to assess programme effectiveness, generating actionable M&E reports for donors, stakeholders, and management.
 - Led data quality assurance through field visits, audits, and validation processes, ensuring 95% data accuracy and reliability.
 - Applied Collaboration, Learning, and Adaptation (CLA) tools (e.g., Most Significant Change, Outcome Harvesting) to track partnerships with LDOs, private sector, and county governments, driving adaptive management.
 - Developed and maintained a Member Management Information System (MMIS) with dashboards disaggregating data by sex, age, disability, and sector, improving data accessibility and stakeholder reporting. Trained over 50 LDO staff in data collection, analysis, and reporting, empowering data-driven decision-making and storytelling.
 - Created data dashboards and visual reports using Power BI, communicating programme progress and insights effectively.

HOBBIES AND INTERESTS

- Singing
- Swimming
- Reading Novels
- Hiking

REFERENCES

- Robert Muli, Project Officer - MADET, 0729991565, Robert.madet@gmail.com
- Jeremiah Mutunga, Data officer- Makueni county Government, 0718409316, jeremiahmutunga26@gmail.com
- Ezekiel Mutunga, Nyahururu Medical School, 0707683444, Ezekielmutunga3@gmail.com

LANGUAGES

English: C2



Swahili: C1



Core Competencies

- **Data Analytics & Visualization:** SQL, Power BI, Python, Excel (VBA, Advanced), Data Modelling, Data Visualization Tools
- **Monitoring & Evaluation (M&E):** MERL frameworks, KPIs, Most Significant Change, Outcome Harvesting, CLA Matrix
- **Statistical Analysis:** Quantitative Analysis, Qualitative Analysis, Predictive Analysis, Data Mining, Statistical Analysis Plans
- **Data Management:** Database Administration, Data Cleaning, Data Validation, MMIS Dashboards, Data Governance
- **Project Management:** Programme Coordination, Stakeholder Engagement, Policy Compliance, Administrative Support
- **Capacity Building:** Training, Knowledge Sharing, Data-Driven Storytelling, Team Leadership

Programmes Coordinator

Youth for Sustainable Development

- 02/2024 - 12/2024
- Led a seven-month SRHR initiative reducing adolescent pregnancies and SGBV, coordinating activities to enhance education and services for adolescents, girls, and PWDs.
 - Engaged local authorities, community leaders, and stakeholders to align project goals with county priorities, securing 100% stakeholder buy-in.
 - Ensured compliance with HR, financial, and safeguarding policies, maintaining high standards of transparency and ethical conduct.
 - Delivered measurable outcomes, advancing gender equity and community inclusivity through data-driven strategies and stakeholder collaboration.

Lead Performance Data Analyst

Farm Concern International (Business portfolios Project)

- 06/2024 - 09/2024
- Collected and analyzed data on agricultural, manufacturing, retail, and service-based businesses in Malawi and Tanzania, focusing on pricing dynamics (farm-gate, wholesale, retail).
 - Performed statistical analysis to uncover trends, calculate profit margins, and identify high-performing business models, delivering actionable insights for stakeholders.
 - Prepared comprehensive findings reports and developed advisory portfolios, recommending agribusiness models (e.g., cooperatives) for Malawi and retail investments for Tanzania.
 - Utilized SQL and Python to process large datasets, enhancing efficiency and accuracy in data modeling and predictive analysis.

Data Quality officer

Trends and Insights Africa

- 04/2021 - 11/2021
- Led data quality assurance initiatives, ensuring data accuracy and consistency across multiple databases
 - Developed and implemented data validation processes and data cleansing techniques to improve data integrity
 - Conducted regular audits and data reviews to identify and resolve data quality issues
 - Collaborated with cross-functional teams to develop and implement data governance policies and procedures

Statistics Intern

Makueni County Government

- 01/2019 - 04/2021
- Data collection, Scrubbing, and analysis to support various statistical projects and research studies
 - Conducted data validation and quality checks to ensure the accuracy and reliability of data sources
 - Participated in data analysis and reporting activities, presenting findings to senior team members

- **Policy & Reporting:**
Analytical Briefs, Policy Notes, Donor Reporting, Report Writing

Key Projects

Farm Concern International - building of business portfolios (Tanzania & Malawi)

KIWASH USAID Project- Mapping Water sources in Makueni County (Management information system on water sources)

Socioeconomic and Cultural Dimensions of Human-Carnivore Conflict in Kajiado County (Kenya)

EDUCATION

09/2014-03/2019

Meru University of Science and Technology

Bachelor of Science Mathematics and Computer Science (Statistics Option)

04/2025-Current

Applied Data Science

WorldQuant University - Washington D.C

Applied Data Science Lab

04/2024-09/2024

Data Science

Simplilearn SKillUp - Online

Certificate of Academic Achievement Award in skills learning in data science

02/2010-11/2013

Kenya Certificate of Secondary education High school certification

Kyannginywa High School