DANIEL MAANGI

Data , Analytics , AI

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EXPERIENCE

Monitoring and Evaluation Advisor | Data Analytics
US CENTERS FOR DISEASE CONTROL AND PREVENTION

📅 August 2022 – Current   📍 Nairobi

- Developed dashboards using Power BI and R Shiny to enhance data-driven decision-making.
- Spearheaded development and integration of AI in service delivery workflows and disease surveillance.
- Improved data quality through tools like DatimFidelity App, ensuring routine data met global standards.

Regional Information Management Analyst
Plan International

📅 Sep 2021 – Aug 2022   📍 Nairobi

- Aggregated and analyzed data across multiple countries to identify **regional trends**.
- Implemented **gender marker analysis** to ensure gender equality considerations in projects.

Senior Data Analyst
InsupplyHealth

📅 Feb 2021 – Aug 2021   📍 Nairobi

- Designed real-time **supply chain performance tools**, deployed in Kenya, Sierra Leone and Ethiopia.
- Integrated datasets from various sources to support **timely health commodity monitoring**.
- Enhanced visibility of supply chain performance through **real-time analytics**.

Data Analyst
International Planned Parenthood Federation

📅 Apr 2019 – Jan 2021   📍 Nairobi

- Conducted **data quality improvements** for Payment by Results programs across Africa and Asia.
- Developed **interactive dashboards** to visualize trends for stakeholders.

Assistant Data Manager
Elizabeth Glaser Pediatric AIDS Foundation

📅 Sep 2015 – Mar 2019   📍 Nairobi

- Maintained robust **DHIS2 databases** for tracking HIV prevention and treatment data including visualization using Power BI.
- Conducted audits to improve **data reliability** and ensure compliance with standards.

SUMMARY

I am an experienced Data Scientist specializing in data visualization, statistical modeling, and machine learning. Proficient in developing innovative end-to-end solutions, improving data quality, and empowering teams with analytics best practices. Proven ability in delivering high-impact projects and enhancing operational and programmatic efficiency.

MY LIFE PHILOSOPHY

"The Purpose of Learning is Action."

MOST PROUD OF

🏆 **Automated Bio-behavioral Survey Summary Sheets:**
Developed an application for visualizing data and generating high quality and reproducible reports for the 2024 Bio-behavioral survey among key populations in 9 counties in Kenya.

💓 **EMR Rollout:**
Provided leadership to ensure successful development and rollout of KenyaEMR facility-wide system in PEPFAR supported facilities in Kenya

TECH STACK

Excel	● ● ● ● ●
Power BI	● ● ● ● ●
R	● ● ● ● ◐
Python	● ● ● ● ○

AWS   AZURE   Databricks   DHIS2
Git   Github   Windows   Linux

LANGUAGES

Swahili	● ● ● ● ●
English	● ● ● ● ●
French	● ○ ○ ○ ○

PROJECTS

Project HIFADHI dashboard
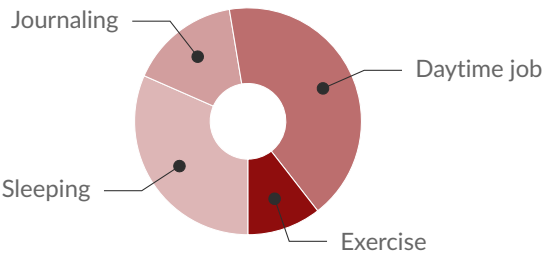**Funding agency/institution**

- Interruption in Treatment (IIT) is a serious threat to virologic non-suppression, morbidity and mortality. The purpose of this project was to develop IIT baseline and develop a platform to provide decision-makers with key insights and progress in IIT elimination.

Advanced HIV Disease Screening using AI
US Centers for Disease Control and Prevention

- The objective of this project was to develop an AI-powered model to identify individuals at risk of Advanced HIV Disease (AHD), leveraging predictive analytics and machine learning. The model aimed to improve early detection and intervention, AHD-specific public health response to enhance patient treatment outcomes in Kenya.

MY TYPICAL DAY

Journaling

Daytime job

Sleeping

Exercise

EDUCATION

M.Sc. in Statistical Science
Strathmore University

🗓 May 2020 – Oct 2022

Thesis title: Statistical learning for class imbalanced data: a case study of Malaria indicator survey data

B.Sc. in Applied Statistics
Strathmore University

🗓 Aug 2010 – Dec 2014

First Class Honors

REFEREES

Dr. Davies Kimanga
@ U.S. Agency for International Development (USAID)
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Dr. Anthony Waruru
@ United Nations Programme on HIV/AIDS (UNAIDS)
✉ WaruruA@unaids.gov