

Mwangi George Ngugi

Artificial Intelligence & Data Associate, inSupply Health Ltd

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Employment

inSupply Health Ltd

Artificial Intelligence and Data Associate

June 2023-Present

My primary focus revolves around several areas such as: a) conducting forecasting and quantification projects by leveraging cutting-edge technology and proficiency in R and Shiny to extract valuable insights from complex datasets, b) performing data exploration, including generating descriptive statistics, two-way plots, and tables, to identify patterns and relationships, c) conducting data cleaning to address data quality issues such as missing or mislabeled data, and executing appropriate cleaning steps, d) conducting statistical tests to quantify patterns, identify causal relationships, and test hypotheses, e) training and testing supervised machine learning models, including regression and classification models, and f) presenting analyses to stakeholders through various mediums such as PowerPoint presentations, documents, and interactive dashboards using R Shiny.

inSupply Health Ltd

Artificial Intelligence and Data intern

March 2023-May 2023

Collaborated with teams to automate analysis needs, including data extraction from health information systems (KHIS/DHIS2).

Strengthened forecasting and quantification process using predictive modeling for better supply planning and decision making.

Kenya National Bureau of Statistics

Enumerator

August 2019

Conducted comprehensive enumeration activities, which involved identifying boundaries, locating structures, visiting households, listing members, providing necessary equipment, administering questions, recording responses, and ensuring accurate data capture.

Education

DataCamp Online Platform

Data Science with R Track

August 2022-Present

Kenyatta University

B.Sc. Economics and Statistics

2018-2022

Ituru High School

Kenya Certificate of Secondary Education

2014-2017

Skills

R programming: I have expertise writing efficient and production-ready R code for statistical data analysis and visualization.

Data visualization using tools such as R's data visualization libraries and Power BI. I can effectively communicate data-driven narratives through visually appealing and informative graphics.

Data cleaning and preprocessing: I Possess a keen eye for detail and utilizes effective techniques to ensure data accuracy by cleaning and preprocessing the data before analysis.

Predictive modeling: I'm skilled in developing predictive models, which involve using historical data to make predictions or forecasts about future outcomes by leverages the Tidymodels and Modeltime ecosystems in R. These ecosystems provide me with a framework for efficient and standardized model development.

Deployment of machine learning models: I have hands-on experience in deploying machine learning models using tools like Shiny, Docker, Vetiver, and Plumber. This includes creating interactive web applications, containerizing models for easy deployment, and building APIs for integration.

SQL and database management: I'm well-versed in SQL for seamless integration and retrieval of data from databases.

Version control: I can use version control tools like Git/GitHub to ensure seamless teamwork and maintain project integrity by keeping track of changes and facilitating collaboration.

Training/Workshops/Seminars

Forecasting and Quantification of commodities for prevention and management of Post-Partum Hemorrhage and Family Planning commodities hosted by inSupply Health (May 2023)

Data collection for student training for entrepreneurial promotion in Kenyatta University (January 2019-March 2019)

Kenyatta University career development and mentorship program (diligently served as a career week 2020 ambassador from 1st October 2019 to 31st January 2020)

Referees

Mr Samuel Githae Kinyua , Economic Analyst at National Treasury

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Timothy Kamau Njicha , Teacher - Ndundu Secondary School

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James Munene Madambo , Maths and Physics Coach

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