

Kiarie Josephat

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Summary

Production-focused Machine Learning and Data Science professional with experience developing reproducible, well-documented ML and software systems. Skilled in building modular, production-ready pipelines, performing data analysis, and delivering business intelligence insights. Strong in Python development, predictive modeling, computer vision, and working with large datasets and SQL databases. Collaborative team player with experience translating analytical results into actionable recommendations.

EXPERIENCE

Data Scientist / Fate Dynamics, Nairobi - FEBRUARY 2025 - OCTOBER 2025

- Built, tested, and optimized high-performance **Python** systems for large-scale Data Science and Machine Learning applications.
- Designed and maintained modular, clean, production-ready **machine learning models**.
- Manipulated and analyzed **large datasets** to support model development and evaluation.
- Collaborated with cross-functional teams - data, business, research, and engineers - to deliver optimized solutions.

Data Analyst Intern / Ministry of Youths & Culture, Muranga - JANUARY 2023 - JULY 2023

- Supported data-driven decision making across youth, women, and people with disabilities self-help groups.
- Provided actionable recommendations based on data analysis to improve program outcomes.
- Ensured **data accuracy and integrity** through validation and cleaning procedures.
- Created reports, dashboards, and visualizations to communicate insights to stakeholders.

EDUCATION

Bachelor of Arts in International Relations and Diplomacy with IT / Pioneer University, Nairobi - MONTH 2021 - Present

- Expected completion November 2026

Certificate in Data Science and Artificial Intelligence for Software Engineering and Business Intelligence / Power Learn Project, Remote - JULY 2025 - DECEMBER 2025

Certificate in Data Analysis and Business Intelligence / Data Analytics Bootcamp, Remote - JULY 2025 - DECEMBER 2025

SKILLS

Programming and Tools: Python, SQL, Streamlit, BI tools, Git

Machine Learning: Predictive modeling, clustering, regression analysis, transfer learning, computer vision (MobileNetV2)

Data: Large dataset manipulation, data cleaning, statistical analysis, visualization

Engineering: Machine Learning Engineering, reproducible pipelines, production-ready systems, documentation

PROJECTS

- Multiple Diseases Diagnosis - ML-powered diagnostic web application that predicts multiple diseases using streamlined preprocessing and a responsive **Streamlit** interface.
- Shambani - Crop Recommendation System - Data-driven engine analyzing soil and environmental features to suggest optimal crop choices.
- Cat vs. Dog Classifier (MobileNetV2) - Transfer-learning computer vision model for high-accuracy real-time image classification.
- Rainfall Prediction System - Regression-based rainfall forecasting tool trained on historical weather data to support agricultural planning.
- Personalized Fitness Web App - Adaptive fitness recommendation platform generating personalized workout guidance from user-submitted metrics.
- Air Quality Prediction Web App - Predictive analytics application estimating air-quality levels from environmental and pollutant indicators.
- The Mall Customer Segmentation - Unsupervised learning system using clustering algorithms to segment mall customers by spending patterns and demographics for targeted marketing insights.

PORTFOLIO & PROFILES

Portfolio Website: <https://kamijoseph.github.io/Portfolio>

GitHub Profile: <https://github.com/kamijoseph>