

Collins Kimani Mumo

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GitHub: github.com/Meliodus254

PROFESSIONAL SUMMARY

Motivated and adaptable individual with a solid academic foundation in Mathematics and Statistics, holding a Bachelor of Science in Mathematics (Statistics Option). Equipped with hands-on technical skills, analytical thinking, and leadership experience gained through academic projects and collaborative work. Eager to contribute to data driven decision-making, deliver actionable insights, and continuously grow within a dynamic, innovation-driven organization.

TECHNICAL SKILLS

- **Data Analysis Tools:** Excel , SPSS, R, Python
 - **Database & Reporting:** Microsoft Access, MongoDB, Tableau, Word, PowerPoint
 - **Statistical & Field Analysis:** Data Cleaning, Data Validation, Survey Processing, Report Writing
 - **Programming & Development:** R, Python, JavaScript
 - **Soft Skills:** Communication, Team Collaboration, Adaptability, Field Data Collection
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EDUCATION

Bachelor of Science in Mathematics (Statistics Option)

Kisii University | Sept 2020 – Dec 2024

- Second Class Upper Honours (65/100)
- **Key Courses:** Probability Theory, Mathematical Modeling, and etc

Certificate in Data Science & AI

KCB Foundation & Adanian Labs | Feb 2024 – May 2024

- Trained in machine learning, R/Python programming, and data science

Kenya Certificate of Secondary Education (KCSE)

Kabaa High School | 2016–2019 |

PROJECTS

Wildlife Conflict Mapper | R Shiny, Leaflet ([Live Demo](#))

- Built an interactive dashboard to map wildlife-human conflicts in Kenya using **R Shiny**.
- Integrated heatmaps, real-time filtering, and CSV uploads to support conservation efforts.
- **Tools:** Leaflet, Tidyverse, ggplot2

Disease Outbreak Detector | Python, ScispaCy ([GitHub](#))

- Developed a Streamlit app that scrapes global health news, applies NLP to detect outbreaks, and maps risks via Folium.
- Automated geocoding of different locations and generated timestamped CSV logs for historical tracking.

Heart Attack Risk Predictor | Python, Streamlit ([Live Demo](#))

- Deployed an ML model (logistic regression) predicting heart disease risk using clinical data.
 - Educated users on medical tests (e.g., cholesterol, ECG) through interactive tooltips.
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WORK EXPERIENCE

Freelance Data Scientist | Jan 2025 – Present

- I'm currently developing a fully functional e-commerce website using modern web development technologies.
- Conducted data validation, wrangling, and reporting on real-world datasets and developed user-friendly dashboards and automated reporting tools.
- Leveraged JavaScript frameworks and Mongo DB for efficient development and data management.
- I'm also working on practical data science projects that involve machine learning, data visualization, and real-time analytics to solve real-world problems.

Attachment | *Kenya National Bureau of Statistics (KNBS), Nairobi* | Apr–Aug 2023

- Assisted in the collection, processing, and analysis of data from multiple sources.

- Applied statistical techniques to ensure data accuracy and reliability.
- Participated in conducting surveys and studies, contributing to actionable insights for decision-making.
- Prepared reports and presentations for stakeholders, enhancing my communication skills

Part-Time Technician | *Bentomlink Solutions, Kisii* | Feb 2022 – Jul 2024

- Provided technical support to ensure smooth infrastructure and service operations.
- Engaged in troubleshooting, maintenance, and proactive problem-solving to resolve technical issues.
- Optimized company systems to enhance performance

LEADERSHIP

- **President, Mathematics Club (High School)**-Organized workshops and events to promote mathematical literacy among peers.
- **Class Captain (High School)**-Demonstrated leadership, teamwork, and conflict-resolution skills.

REFERENCES

1. **Dr. Fred Monari**
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2. **Gilbert Mwandeje**
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