

FAITH MUKELI MWANZIA

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PROFESSIONAL SUMMARY

Passionate and detail-oriented Data Analyst and Geospatial Information Science graduate with hands-on experience in GIS techniques, data analytics, map creation, and health accessibility research. Skilled in Excel, SQL, Power BI, ArcGIS, QGIS, Python, and Adobe tools. Strong background in field data collection, report writing, and web-based spatial app development. Highly motivated to use data to drive impactful decisions in public health, development, and planning.

EDUCATION

Bachelor of Science in Geospatial Information Science

Masinde Muliro University of Science and Technology (MMUST), Kenya

Expected Graduation: December 2025

Data Analytics Bootcamp (Scholarship Awardee)

TechCrush | Tech for Africans Program

Completed: June 2025

Capstone: Analyzed the relationship between daily physical activity and resting heart rate using wearable device data.

SKILLS

Data Analysis & Visualization: Power BI, Excel, SQL, Tableau

GIS & Mapping Tools: ArcMap, ArcGIS Pro, QGIS, ERDAS Imagine, HEC-RAS

Programming: Python, PyQGIS, ModelBuilder, HTML/CSS (Basic)

Tools: Adobe Photoshop, GPS Essentials, SW Maps, UTM Mapper

Soft Skills: Critical thinking, Teamwork, Public speaking, Problem-solving, Mobilization

PROJECT EXPERIENCE

Mapping Accessibility to Healthcare Facilities in Matungu Sub county Using GIS

Undergraduate Research Project, MMUST

- Created service area buffers (2 km, 4 km, 10 km) using ArcMap.
- Analyzed spatial access to public healthcare using road networks and population density.

- Produced maps and reports for policy recommendation.

Capstone Project: Physical Activity vs. Resting Heart Rate

TechCrush Data Analytics Bootcamp

- Cleaned and analyzed wearable health data.
- Built dashboards and visuals to identify trends using Power BI.
- Interpreted correlation between active days and resting heart rate decline.

Web App: Healthcare Accessibility Viewer (QGIS + GitHub Pages)

- Built an interactive web map showing health facility access across Matungu.
- Hosted app online with pop-ups, filters, and responsive interface.

GIS Programming II Project: Buffer Zone App

- Developed a buffer generator QGIS plugin using PyQGIS.
- Automated zone creation for health catchment analysis.

FIELDWORK & ATTACHMENT

Ministry of Lands, Kakamega – Survey Department

Survey Intern

- Conducted cadastral surveys and land data digitization.
- Participated in map production, GPS data collection, and parcel updates.

Land Survey Department – Field Mapping & Data Collection

- Used mobile GPS tools and survey software for spatial field data.
- Supported land audit and mapping exercises.

LEADERSHIP & VOLUNTEER EXPERIENCE

Chairperson – Mobilization Committee

FOCUS Kenya Triannual Conference (Western Region-MMUST CU)

- Coordinated student mobilization and publicity for a major Christian conference.

ICT & Publicity Coordinator

Western Outreach Ministry, MMUST Christian Union

- Designed event posters and managed digital outreach platforms.

ACHIEVEMENTS & AWARDS

Scholarship Winner: Tech for Africans – Data Analytics Bootcamp by TechCrush

Certificate: HP LIFE – Data Analytics and Data Science

Top Project Recognition: Matungu Healthcare GIS App at MMUST Departmental Expo

Recognition: Outstanding Mobilizer – FOCUS Kenya 2024

LANGUAGES

- English (Fluent)
- Kiswahili (Fluent)

REFERENCES

Available upon request.