

SAMUEL MWAMBURI MGHENDI

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BIO

Passionate about translating data into actionable insights to drive strategies and product innovation, and I bring a proven track record in research, geospatial and data analysis, and effective cross-functional collaboration.

EDUCATION

University of Nairobi, Nairobi, KE 2022

MSc. in Computational Intelligence

Relevant Coursework: Data Science, Machine Learning, and Applied Data Visualization.

Moi University, Eldoret, KE 2019

BSc. in Informatics

Relevant Coursework: Software Engineering, Data Analysis, and Artificial Intelligence.

WORK EXPERIENCE

United Nations Environment Programme, *Data Analytics Consultant* December 2023 to Date
Nairobi, KE

- Simplified project reporting and monitoring through the conversion of legacy project data i.e. frameworks, risks, and measurable targets for the UNEP Biodiversity portfolio in the organization's Enterprise Resource Platform, UMOJA.
- Generated linkages between spatial files in the organization's Global Resource Information Database (GRID) and additional environmental geodatabases.
- Integrated project management for the Biodiversity and Land Degradation unit by organizing and codifying their document repository by project phases, reporting requirements, and financial information.

Ona, *Data Analyst* January 2023 to Date
Nairobi, KE

- Improved clients' data initiatives by orchestrating advanced data extraction, loading, and transformation pipelines. Leveraged Airbyte, dbt, PostgreSQL, and Python to optimize the processes, resulting in higher efficiency.
- Enhanced UNICEF global office teams' understanding of the geographical impact of their initiatives by breaking down location-based data and presenting key findings visually.
- Trained internal and external stakeholders on Ona's data solution infrastructure.

Analytics for a Better World, *Data Science Fellow* September 2022 to December 2022
Amsterdam, NL

- Applied prescriptive analytics and machine learning towards optimizing the collection of plastic waste and calculating financial incentives within Nairobi in collaboration with UNEP and UN-HABITAT.
- Presented the tool as well as the results of the study to UNEP.

United Nations Environment Programme, *Information Management Specialist* July 2019 to December 2022
Nairobi, KE

- Designed financial risk assessment algorithms using Python for the reporting of projects' performance on the organization's projects monitoring platform.
- Implemented multiple electronic workflows for Law Division's task tracking, through repurposing Atlassian's Jira, to consolidate information on and centralize the submission of all administrative requests sent within the department.
- Created dashboards at various levels for strategic communication including a dynamic report for tracking implementing partners' financial commitments and advance payments using PowerBI, reducing the number of manual tasks involved in preparing, monitoring and reporting data for these agreements.

NOTABLE PROJECTS

UNICEF Latin America and Caribbean, NDCs for every child Data Platform	January 2023 – November 2023
UNICEF Cambodia, Child Protection Information Management System	March 2023 – December 2023

CERTIFICATIONS

Microsoft Certified Data Analysis Associate	September 2021 – September 2024
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MEMBERSHIPS

Institute of Electrical and Electronics Engineers (IEEE)	April 2021 to Date
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TECHNICAL SKILLS

- Data Analysis: *MS Excel, Python, SQL, and QGIS.*
- Data Extraction, Transformation and Loading: *Airbyte, dbt, PostgreSQL, and MySQL.*
- Data Visualization: *Apache Superset and MS PowerBI.*
- Version control: *Git.*