

SAMUEL MWAMBURI MGHENDI

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EDUCATION

University of Nairobi, Nairobi, KE 2022

MSc. in Computational Intelligence

Relevant Coursework: Data Structures and Algorithms.

Moi University, Eldoret, KE 2019

BSc. in Informatics

Relevant Coursework: Software Engineering, Data Mining and Advanced Databases.

WORK EXPERIENCE

Analytics for a Better World, *Data Science Fellow* September 2022 to Date

Remote

- Applied prescriptive analytics and process optimization models towards the study and development of a use-case on plastic waste collection in Nairobi with UNEP.
- Organized multi-stakeholder consultation sessions, mapped a supervisory panel, and hosted project ideation sessions and collaboration workshops for the use-case.

United Nations Environment Programme, *Information Management Specialist* July 2019 to Date

Nairobi, KE

- Developed performance classification algorithms and an analysis pipeline using Python libraries and SQL, and Superset reports embedded on a PHP-based projects monitoring platform, [PIMS+](#), to visualize data for risk-analysis.
- Implemented multiple workflows for Law Division's task tracking platform, [WeWork](#), to consolidate information on and centralize the submission of all administrative requests sent within UNEP's Law Division for processing.
- Created Law Division's Implementing Partners' tracking dashboard for financial commitments and advance payments using MS PowerBI embedded on an internal MS Teams channel, reducing the manual tasks involved in preparing, monitoring and reporting data for these agreements within the department by 60% (3 out of 5 steps in the process).

United Nations Environment Programme, *Information Management and Systems Intern* September 2017 – March 2018

Nairobi, KE

- Undertook research and prepared a proposal on the benefits and implications of leveraging machine learning and advanced analytics to take advantage of the proliferation of environmental data in the achievement of the Sustainable Development Goals and UNEP's specific targets.
- Remodeled the user interface and conducted the upgrade of UNEP's Online Document Repository, [WeDocs](#).

MEMBERSHIPS

Institute Of Electrical And Electronics Engineers (IEEE), *Graduate Student Member*, Nairobi, KE April 2021 to Date

Internet Society Kenya Chapter, *Member*, Nairobi, KE December 2017 to Date

CERTIFICATIONS

Microsoft Certified Data Analysis Associate September 2021 – September 2023

TECHNICAL SKILLS AND INTERESTS

- *Technical Skills:* MS Excel and Python for data analysis; PostgreSQL, MS SQL and MySQL for database design and development; Apache Superset and MS PowerBI for data visualization; Apache Airflow for workflow automation.
- *Languages:* English, Swahili.
- *Interests:* Painting, Drawing, Photography, Cycling.