

JUDITH SOLOMON

Data Science · Machine Learning · Artificial Intelligence

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PROFESSIONAL PROFILE

Data science professional with a Bachelor of Business Information Technology and experience applying Python, statistical analysis and machine learning to real-world health data. Currently a Data Science Intern at the Emerging Technologies for Health (ETH) Research and Development Laboratory, Muhimbili University of Health and Allied Sciences.

Strong practical foundation in data cleaning and preprocessing, exploratory data analysis, feature engineering, regression and classification, regularization and model evaluation, supported by a broader background in artificial intelligence and emerging technologies. Co-founder of an immersive technology studio, with proven ability to take a technical idea from concept to a working, delivered product.

TECHNICAL SKILLS

Programming & Tools	Python · Pandas · NumPy · Matplotlib · scikit-learn · Jupyter Notebook · Git & GitHub
Data Analysis	Data cleaning and preprocessing · data visualization
Machine Learning	Linear and logistic regression · decision trees · model evaluation
Data & Research	Healthcare and antimicrobial resistance (AMR) data
Emerging Technologies	Artificial intelligence · generative AI · AR / VR / XR development · Unity · Blender · 3D modelling

PROFESSIONAL EXPERIENCE

Data Science Intern 2026 – Present

Emerging Technologies for Health (ETH) Research and Development Laboratory, MUHAS · Dar es Salaam, Tanzania

- Analyse antimicrobial resistance (AMR) data to identify patterns across pathogens, specimens and susceptibility results, and prepare analysis-ready datasets for downstream modelling.
- Build reproducible data-cleaning and exploratory analysis workflows in Jupyter Notebook, documenting every processing decision and maintaining version-controlled project files.
- Work within a multidisciplinary research team applying artificial intelligence and machine learning to health and research problems, with close attention to data quality, consistency and analytical validity.

Co-Founder · Technology, 3D & Innovation 2024 – Present

Seede XR · Dar es Salaam, Tanzania

- Co-founded an immersive technology studio delivering AR, VR, XR and AI-driven digital experiences.
- Design and build 3D assets, immersive environments and interactive prototypes using Blender and Unity.
- Share technical, creative and commercial responsibility within a small founding team, carrying projects from concept and prototype through to delivery.

EDUCATION

Bachelor of Business Information Technology 2021 – 2024

University of Dar es Salaam (UDSM) · Tanzania

- Relevant coursework: programming, database systems, systems analysis and design, business information systems, technology management and digital innovation.

LANGUAGES

Swahili	Native
English	Professional working proficiency
Mandarin Chinese	Conversational level

REFERENCES

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