Samson Kinyanjui

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SKILLS

- **Languages**: Java, Python, JavaScript, SQL
- **Frameworks & Libraries**:Express, NextJs, Node.js, Flask, TensorFlow, PyTorch, Scikit-learn
- **Databases**: MySQL, MongoDB
- **DevOps & Cloud**: Docker, GitHub Actions, AWS (EC2, S3, Lambda), Google Colab, Paperspaces
- **Machine Learning**: Feature engineering, hyperparameter tuning, model deployment
- **Version Control & Tools**: Git, Linux
- **Soft Skills**: Problem-Solving, Communication, Analytical Thinking, Adaptability, Leadership, Presentation

EDUCATION

- **Dedan Kimathi University of Technology** — Nyeri, Kenya
  Master of Science in Computer Science — *Oct. 2023 – Present*
- **Dedan Kimathi University of Technology** — Nyeri, Kenya
  Bachelor of Science in Information Technology — *May 2019 – Apr. 2023*

EXPERIENCE

- **Freelance Machine Learning & Full Stack Developer** — Online, Remote
  Jan 2022 - Present
  - **Machine Learning**: Preprocessed datasets, built pipelines, trained and fine-tuned models for production.
  - **Full Stack Development**: Designed and deployed responsive React/Django/Flask apps.
  - **API Engineering**: Developed RESTful and GraphQL APIs for client-server data exchange.
  - **Cloud Deployment**: Managed container-based deployment using Docker and AWS EC2/S3.
  - **Data Analytics**: Performed data wrangling and exploratory analysis for client use cases.
  - **Agile Practices**: Delivered work in iterations with feedback loops from clients.

- **Graduate Research Assistant** — Dedan Kimathi University of Technology, Nyeri, Kenya
  Oct 2023 - Present
  - **Student Labs**: Guided students through ML labs, assignments, and practical sessions.
  - **Deep Learning Projects**: Assisted students in CNN/RNN/Transformer-based implementations.
  - **Data Preprocessing**: Taught data cleaning, augmentation, and feature engineering.
  - **Optimization Techniques**: Reviewed student models and improved performance via tuning.
  - **Presentation & Teaching**: Explained concepts to technical and non-technical audiences.

PROJECTS

- **Kenyan Business Ideas & Investment Bot**: Built an ML-powered chatbot with React frontend and Flask backend, fine-tuned for Kenyan economic data. `View Project`
- **Research Article Generator (RAG) App**: Enhanced app to summarize and search scientific research articles using transformers. `GitHub`
- **Campus Part-time Jobs**: Developed a Django-based web app for connecting students to campus jobs like academic theses. `View Project`
- **CORD-19 Topic Clustering**: Performed unsupervised clustering of COVID-19 research articles using LDA + K-means NLP pipeline. `GitHub`

PUBLICATIONS

- **Financial Health Assessment for Households in Kenya**: Kinyanjui, Samson, et al. "Financial Health Assessment for Households in Kenya." In *2024 International Conference on Information and Communication Technology for Development for Africa (ICT4DA)*, pp. 90-95. IEEE, 2024.