

Amidu Dabor

AI/ML Engineer | Software Engineer | Data Science Specialist

00100 Nairobi, Kenya | (+254) 795 455 796 | 232a.dabor@gmail.com | [LinkedIn](#) | [Github](#)

PROFESSIONAL SUMMARY

Results-driven Software Engineer & AI/ML Specialist with 2+ years' technical experience in telecom, IT education, and web application development, plus 2+ years of hands-on project delivery and specialized training in large-scale software engineering, AI, Machine Learning, and Data Science. Proficient in Python, Django, Flask, FastAPI, JavaScript, SQL, and ML frameworks (scikit-learn, TensorFlow). Adept at building and deploying data-driven solutions, optimizing models, and integrating AI/ML systems. Experienced in leveraging AWS, Azure, GCP, Modal, and Hugging Face to deliver scalable, innovative, and high-impact solutions.

EDUCATION

United States International University - Africa (USIU-Africa)

MSc., Information Systems and Technology (Specialty: Software Engineering)

Jan 2023 - Jul 2025

Nairobi, Kenya

Njala University

BSc. (Honours), Computer Science

Oct 2016 - Jun 2020

Freetown, Sierra Leone

Njala University

Higher Diploma, Information Technology

Oct 2014 - Jun 2017

Njala, Sierra Leone

TECHNICAL AND SOFT SKILLS

- **AI & Machine Learning:** AI Engineering · Deep learning · Computer vision · Conversational AI · Generative AI · NLP · LLMs · Multimodal LLMs · MLLMs · LLM Fine-tuning · AI automation · AI agents · Prompt engineering · Predictive modelling · Optimization & quantization · RAG pipelines · LangChain · Hugging Face · Hugging Face transformers · Responsible AI & Compliance
- **Frameworks/Tools:** TensorFlow · PyTorch · Keras · Scikit-learn · NVIDIA NeMo · ASR/TTS · Kubernetes (k8s) · GPU-Accelerated Pipelines
- **Data Science & Analytics:** Data analysis · Exploratory Data Analysis (EDA) · Data extraction · Data preprocessing · Feature engineering · Statistical modelling · Forecasting · Synthetic data generation · Data workflow design & optimization
- **Tools & Platforms:** Python · SQL · Pandas · NumPy · SciPy · Matplotlib · Plotly · Seaborn · Azure ML studio · Google's BigQuery · Vertex AI · Power BI · Tableau · Weights & Biases · VS Code · Jupyter notebook · Google Colab · Torch
- **Software Development & Backend:** Python (Django, Flask, FastAPI) · HTML · CSS · Javascript · Node.js · React · RESTful APIs · Microservices · Serverless architectures · Docker · SQL · NoSQL · VS Code · PyCharm · Selenium · BeautifulSoup · Web Crawling and Scraping · Agile methodologies · Mermaid (Mermaid syntax) · Debugging skills
- **Cloud & DevOps:** AWS · Azure · GCP · Azure DevOps · NVIDIA NGC · Vertex AI · IaC (Terraform · Ansible · Azure Resource Manager · Bicep) · CI/CD (Git · GitHub Actions · GitLab · Cloud Automation · Bash · PowerShell) · ZeroTier Network
- **Additional Skills:** Mobile app development (Flutter & Dart) · R · Java · C++ · Project management tools
- **Soft Skills:** Cross-team collaboration · Strong problem-solving skills · Great attention to detail · Communication · Ability to work independently · Customer service · Creative writing

PROFESSIONAL, RESEARCH, AND PROJECT EXPERIENCE

Cyber Shujaa - Data and AI Track | AI/ML & LLM Engineering Bootcamps | USIU-Africa

Software & AI/ML Engineer/Data Science Specialist

Jan 2023 - Present

Nairobi, Kenya

Academic Projects and Research

- Engineered a BeautifulSoup-powered web crawler to autonomously extract and structure academic content from a multi-layered university website, enabling vectorized retrieval for a LangChain-based AI assistant delivering real-time, context-aware support.
- Developed a Django-JavaScript web app, with core functionalities, to manage academic support tickets; additional features, including resolution tracking, are underway.
- Tracked model performance and training metrics by running reproducible MLOps experiments with Weights & Biases.
- Built a Flutter-based hiking app for hikers with real-time navigation, multimedia sharing, and SQLite storage; off-line navigation, community features (e.g., chat), recommendations, and payment features are underway.

Professional Development and Independent Projects

- Built and deployed a FastAPI regression model for real-time housing price prediction with integrated preprocessing and RESTful inference.
- Implemented a BERT-based semantic similarity model using [CLS] embeddings and cosine similarity with Hugging Face Transformers, achieving 73% accuracy.
- Engineered an XGBoost classifier for malignant vs benign tumor detection, attaining 96.7% accuracy in breast cancer diagnosis.
- Developed a Kernel SVM model predicting customer conversions and click-through rates (CTR) with 95% accuracy, enabling targeted marketing in social network ads.
- Designed an LLM-powered source-to-source code translator to optimize performance across languages (e.g., Python → C++).
- Developed an autonomous multi-agent deal finder to track best offers via real-time RSS alerts.

- Created a document-based RAG pipeline with model quantization and streaming for efficient, context-aware Q & A.
- Built a TensorFlow/Keras deep learning model, achieving 98% validation and 97.7% test accuracy on MNIST digits classification.
- Designed interactive dashboards in Power BI and Tableau to visualize hotel KPIs and HR metrics, driving data-informed decisions.
- Analysed financial trends and investment-impact patterns in startup data using linear regression.

QCell (SL) Ltd

Assistant IT & Convergent Billing System (CVBS) Engineer

Apr 2021 - Dec 2022

Freetown, Sierra Leone

Departments/Units Served: IT | Convergent Billing System (CVBS) | Network Operation Centre (NOC)

- Optimized service delivery by automating SFTP file detection and retrieval using Python and Cron jobs, demonstrating strong programming skills and a foundation for scalable algorithm development.
- Maintained “five nines” (99.999%) network uptime by proactively monitoring critical systems, responding swiftly to incidents, and escalating issues as needed, ensuring high service availability and operational continuity in a telecom environment.
- Supported regulatory data accuracy by developing the front-end web app interface for integrating the Subscriber Data Configuration (SDC) device with QCell’s ECR system.
- Delivered reliable and consistent customer service and subscribers support, contributing to day-to-day technical operations and demonstrating effective communication and cross-functional collaboration skills.

Competency Development Services (CDS)

IT Instructor & System Support Engineer

May 2020 - Mar 2021

Freetown, Sierra Leone

Department/Unit Served: IT Department

- Enhanced student engagement and digital literacy through practical, interactive IT training, leveraging modern technological tools to foster analytical and technical skills.
- Achieved “four nines” (99.99%) device uptime by providing responsive IT support and ensuring training hardware and software remained fully operational, supporting smooth delivery of technical education programs.
- Contributed to the refinement of the ICT curriculum through continuous updates and the integration of current technology practices, supporting collaborative development and a data-driven approach to educational innovation.

LEADERSHIP AND COMMUNITY ENGAGEMENT

Eminent Family Organization

Secretary General (Former) - Member

Jul 2012 - Present

Freetown, Sierra Leone

- Coordinated and led outreach programmes, delivering educational materials to underserved schools.
- Promoted youth leadership, critical thinking, and civic engagement by organizing community events such as debates, quizzes, and mentorship sessions.
- Served as a key contributor to the organization’s governance framework through participation in the constitutional drafting and review process.
- Promoted inclusive participation by ensuring gender-balanced representation and effective stakeholder communication.

LANGUAGE PROFICIENCY

- English (Full Professional Proficiency) | Krio (Native) | German (Beginner - on-going training)

HONOURS, RECOGNITIONS, AND WORKSHOPS

- **BSc. in Computer Science, Njala University (Oct 2016 - Jun 2020):** Graduated with Honours (a top student in class) and Distinction in Internship & Research Project and had Dean’s List Recognition
- **Higher Diploma in Information Technology, Njala University (Oct 2014 - Jun 2017):** Graduated with Distinction, Consistently a top student in class with Dean’s List recognition
- **Experts Live Kenya 2024, Microsoft - Data & AI Track (Jul 2024):** Engaged in discussions on Data & AI.
- **Google I/O Extended Nairobi 2024, Selected Attendee- Data and AI Track (Jul 2024):** An event organized exclusively for developers and professionals, with engagements in the advancement and use of Data and AI.
- **Explore the Power of Technology, Ericsson - Tech Trends & Career Networking (Sep 2024):** Engaged with industry leaders on tech trends, career opportunities, and skill applications while expanding professional networks.

TRAINING CERTIFICATIONS

- **LLM Engineering: Master AI, Large Language Models & Agents:** Udemy
- **Complete Data Science Bootcamp:** Udemy
- **Learn Everything about AI Bootcamp (AI & ML Training):** Microsoft Learn Student Ambassador/DevTown
- **Foundations of Prompt Engineering:** AWS
- **Customizing and Evaluating LLMs Using Amazon SageMaker:** AWS
- **Data and AI Track:** Cyber Shujaa (awaiting certification)

REFERENCES

References are available upon request.