

Ayuba Ahmed Bayugo

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EDUCATION

University of Energy and Natural Resources

2019

BSc Information Technology – Second Class upper

TECNICAL SKILLS

Scripting Languages: Python

Spatial Analytics: QGIS, QField, Earth Analytics, Python (Fiona and Shapely)

Visualization: Power BI, R Library (ggplot), Python Libraries (Matplotlib, and Seaborn)

Statistical Tools: R(Foundations) and Microsoft Excel

Operating Systems: Windows

PROFESSIONAL COMPETENCIES

- Querying relational and non-relational databases in MySQL and Python scripts.
- Creating data visualization dashboards in Power BI and Excel.
- Data cleaning and transformation in python (pandas and numpy) and R (tidyr and dplyr).
- Workshops and training presentations.
- Process automation with python.
- Geospatial analytics in QGIS, QField, sentinel hub and Google Earth Analytics.
- Research and development.

PROFESSIONAL EXPERIENCE

Data Analyst Ecom Trading (Unicom) – Burkina Faso, Benin, Ghana, And Togo

November 2024

– Present

- Utilization of remote sensing and satellite imaging technologies to monitor organic soya and cashew nut plantations.
- Data Curation and Quality Check
- Conducts comparative analyses of commodities acquisition and transaction data to identify cost-saving opportunities, streamline procurement strategies, and reduce cycle times
- Manages logistics analysis, tracking cargo from origin locations to ports, including monitoring stuffing processes, bill of lading (BL) preparation, and SOB (shipped on board) status to prevent late shipments.
- Develop and monitor performance reports to track KPIs such as on-time delivery rates, transportation costs, and warehouse efficiency.
- AR days calculation and monitoring

Junior Data Analyst Ecom Trading (Agroecom), Sustainability Management Services, Kumasi, Ghana

November 2023 – October 2024

- Process Automation with Python. Developed and implemented Python scripts to automate SQL queries and Excel processes, significantly reducing manual effort and improving data processing efficiency.
- Farm Mapping Quality Validation: Conducts quality validation of farm maps by generating polygons, verifying farm sizes, and detecting encroachments in forest reserves, ensuring compliance with EUDR, COCOBOD and ICI regulations at the beginning of the cocoa seasons.
- Data Quality Management. Ensured the accuracy and completeness of farm data, helping to maintain high data standards.
- Field Officer Training: Trained field officers on data and farming mapping techniques
- Regulatory Compliance. Analyzed farm and farmer household data to ensure adherence to cocoa regulations, including traceability and child labor monitoring.

Digital Solutions Developer Intern Consolidated Bank Ghana – Kokomlemle October 2022 – December 2022

- Developed a web application for recording and storing monthly security simulations assessments in a database.
- Assisted the testing team with the testing and writing of test scripts for a customer onboarding application and reported functionality errors to the developer.
- Prepared the technical documentation for a sanctioned screening portal.
- Documented errors and vulnerabilities developers face when developing systems solutions.
- Participated and engaged in design team and planning meetings.
- Shadowed team members to learn new tasks and how to appropriately.

ACADEMIC PROJECTS

- Developed and deploy machine learning models (soft voting and a stacking classifier) capable of recommending crops a farmer can grow on a piece of land using crop production data, satellite imagery, and climate data.

SERVICE AND LEADERSHIP

Organizing Committee Member, Ecom Trading (Agroecom) Kumasi, Ghana - 2024

- Contributed to charitable efforts at a school in Ejisu, providing support and resources for students in need.

Project Lead, Final year undergraduate thesis, UENR - 2023

- Developed and deployed a machine learning models capable of recommending crops to farmers to grow based on climate and NDVI data derived from satellite imagery.

Deputy Projects Organizer, GNPC Foundation Scholars, UENR-Cohort - 2022

- Led the "We Can Go to School Again" charity initiative, providing mentorship and resources such as wheelchairs, eyeglasses, and essential school supplies to students in underserved communities.