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 (Geopandas, Fiona and Shapely)

Visualization: Power BI, R Library (ggplot2), 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.
- Curate and performs quality checks to ensure accuracy and reliability.
- Analyzes commodity acquisition and transaction data to identify cost savings and optimize procurement strategies.
- Manages logistics analysis, tracking cargo from origin to port, and ensuring timely shipments through effective monitoring of processes.
- Developed performance reports to track KPIs, such as on-time delivery, costs, AR days, and warehouse efficiency.

Junior Data Analyst Ecom Trading (Agroecom), Sustainability Management Services, Kumasi, Ghana
November 2023 – October 2024

- Automated processes using Python, developing scripts to streamline SQL queries and Excel tasks, reducing manual effort by 30% and enhancing data processing efficiency.

- Conducted quality validation of farmer household data and farm maps, ensuring compliance with EUDR, COCOBOD, and ICI regulations by verifying farm sizes, detecting encroachments, monitoring child labor activities.
- Managed data quality, ensuring farm data accuracy and completeness to maintain high standards.
- Testing GIS mobile applications on field to assist developers in meeting operations requirement.
- Trained over 300 field officers on data collection and farming mapping techniques and technologies.

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, providing accurate records on security issue for analysis and strategic decisions.
- 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.

ACADEMIC PROJECTS
- Developed and deployed machine learning models (soft voting and stacking classifier) to recommend suitable crops for farmers based on 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
- Led 4-person team to develop and deployed machine learning model powered mobile app to recommend suitable crops for farmers.

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.