

**ELIZABETH-LYNDA
NARTEY** - *DATA ANALYST*
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[GitHub Profile](#)

SUMMARY

Data Analyst with strong foundations in machine learning and business analytics. Experienced in analyzing complex datasets, building predictive models, and translating insights into data-driven decisions across financial, operational and customer contexts.

DATA SCIENCE PROJECTS

AI Market Bubble Prediction

Analyzed historical price data, valuation metrics, and market sentiment (NLP) to identify speculative market bubbles; applied predictive and time-series models to assess crash risk.

Kaggle Portfolio – Performed quantile regression, time-series modeling, and financial forecasting using Python.

Business Analytics Data Simulation

Simulated synthetic datasets using AI tools and statistical techniques to analyze performance variability with ML models.

Interactive R Shiny Visualization -

Designed an interactive R Shiny web application using API-sourced cybersecurity data to visualize vulnerability severity trends across the U.S. and globally.

SKILLS

Languages: Python, SQL, R

Tools: Pandas, NumPy, Scikit-learn

Analytics: Regression, Classification, Time Series, Feature Engineering

Visualization & Reporting:

Git, AWS, R Shiny, Tableau Dashboards, API-based Data Integration, SAS

EDUCATION

American University, Washington, DC - Graduate Assistant 2026
MS Data Science in Business Analytics 3.8 GPA

Kwame Nkrumah University of Science and Technology, Ghana 2022
BS Computer Science

RELEVANT CERTIFICATIONS

Machine Learning & Data Analytics

- **SAS Certified Specialist:** Machine Learning Pipelines
- **SAS Certified Specialist:** Visual Business Analytics
- **SAS Certified Specialist:** Modelling Using SAS Visual Statistics
- **SAS Certified Associate:** Programming Fundamentals
- **Advanced Google Analytics**
- **Girls Are ELITE** Programming Certification
- **Lead it Africa** Public Speaking & Development Training.

LEADERSHIP AND WORK EXPERIENCE

Vice President CAS Graduate Students', American University Fall 25/26

Social Media Mgr., American Statistical Society, AU Fall 25/26

Graduate Trainee, MTN Ghana 2022 - 2025

- Analyzed network performance data to identify efficiency gaps and support optimization decisions.
- Developed Python-based optimization and automation tools improving signal processing, demonstrating strong algorithmic and analytical problem-solving skills.

Vice President, Computer Science Women's Commission 2021/2022

EXTRACURRICULAR & VOLUNTEERING

National Science and Math Quiz Semifinalist, 2018

- Represented *Ghana National College* in Ghana's top **STEM** competition, showcasing precision and attention to detail.

KNUST Alumni Tree Planting and Arboretum project

- Participated in a tree planting exercise towards the United Nations Sustainable Development Goals 13 and 15.

Peer Mentor, Mamfe Youth Mentorship

- Mobilized graduates to provide mentorship to high schoolers and create STEM awareness to rural communities in Ghana.

WORK AUTHORIZATION

Eligible to work in the U.S. - OPT/CPT valid through 12/2028