

NANA ARABA AMISSAH ESHUN

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EDUCATION

MSc. Computer Science
University of Ghana, Legon.

Oct 2023 – Sept 2024

SKILLS SUMMARY

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- **Programming Languages:** Python, R, C, SQL, Java
 - **Markup and Style Languages:** CSS, HTML
 - **Frameworks:** Pandas, NumPy, Scikit-Learn, Matplotlib
 - **Tools:** Power BI, Excel, PowerPoint, Tableau, MySQL, SQLite
 - **Platforms:** Jupyter Notebook, Visual Studio Code, Google Collaboratory Notebook, GitHub,
 - **Technical Skills:** Programming, Data Analysis, Version Control, Typing (70 WPM).
 - **Soft Skills:** Tutoring and Mentorship, Rapport Building, Strong Stakeholder Management, People Management, Excellent Communication
 - **Speaking Languages:** English, Akan, Spanish

PROJECTS

Customer Churn Analysis – Orange Telecom

January 2025.

- Analyzed customer churn trends using a telecom dataset.
- Discovered that international plan users churned 40% more than others, leading to strategic pricing adjustments.
- Built a logistic regression model achieving 85.77% accuracy in predicting churn risk.
- Created Power BI visualizations to present key trends and patterns in churn data.
- View here:
<https://docs.google.com/presentation/d/19Yy1gy75mhhSZxSj7hgXrYgvMG5Ty8K1/edit?usp=sharing&ouid=110062215793051884005&rtpof=true&sd=true>

Sentiment Driven Election Prediction Under Differential Privacy

Dec 2023 - Nov 2024

- Collected labelled tweets data from Kaggle.
- Cleaned and preprocessed the text data.
- Labelled the sentiment data using VADER.

- Proportionally redistributed the sentiments of political candidates.
- Built and fine-tuned a logistic regression model achieving an accuracy of 87% in predicting the election results and comparing it to its differentially private counterparts.
- View here: https://github.com/ARA-creator/SentimentElectionPrediction_DP

Walmart Sales Performance Analysis

July 2024.

- Conducted an in-depth analysis of Walmart sales data to identify key performance trends and business insights.
- Designed interactive Power BI dashboards to visualize sales patterns, revenue trends, and customer behavior.
- Utilized SQL queries to extract, clean, and transform raw sales data for accurate reporting.
- Implemented data-driven recommendations to optimize inventory management and sales strategies.
- View here: <https://drive.google.com/file/d/1V15kctRoTCPMeac4qHBHG0DgmzrbjrCZ/view?usp=sharing>

WORK EXPERIENCE

Data Analyst Tutor,

iiAfrica (Industry Immersion Africa)- Ghana 1000 Program,
University of Ghana.

March 2024 – Sept 2024

- Tutored and mentored a group of 40 STEM graduates on academic and industry-related topics in data science.
- Led weekly planning meetings with the sub-schools in the iiAfrica team to strategize lesson delivery and student engagement.
- Monitored and reported on student attendance, academic development and performance metrics ensuring alignment with program goals.
- Participated in tutor training programs to stay up to date on best practices in education and student engagement strategies.

Internship: Data Analyst,

Department of Political Science, University of Ghana.

Nov 2022 – Oct 2023

- Assisted in data collection, cleaning, and analysis for political research projects.
- Analyzed 5+ years of polling data using Python & SQL, uncovering voter behavior patterns influencing policy recommendations.
- Designed 10+ interactive dashboards in Power BI, improving data accessibility for faculty by 30%.

- Supported faculty in writing data-driven reports for academic publications and policy recommendations.
- Analyzed student admissions data and tracked the number of students requesting

LEADERSHIP EXPERIENCE

Executive Secretary, Diplomacy Hub, Political Science Department, Sep 2022 – Sep 2023
University of Ghana.

- Provided administrative support to the Diplomacy Hub, including managing schedules, handling correspondence, and organizing meetings
- Maintained accurate and up-to-date records of Diplomacy Hub activities, meetings, and initiatives.

Acting General Secretary, Dear Diary Health and Wellness, Feb 2022 – Apr 2022
Non-Governmental Organization.

- Oversaw the financial management of the NGO, including financial reporting, and ensured compliance with financial regulations
- Oversee the day-to-day administrative functions and operations of the NGO.

Referees' details available on request.