

## **ANDREWS ASAMOAH BOATENG**

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### **Summary**

As a self-motivated data analyst and Python developer with over 3 years of experience, I specialize in implementing data-driven solutions for organizations which has resulted in over \$500K in cost-savings and hundreds of saved man-hours. Proficient in Python, SQL, and Spreadsheets, I am dedicated to optimizing efficiency for organizations and increasing profitability via data-driven in-house tools. I strive to leverage my skills and experience to identify insights and trends in complex data sets, and effectively communicate findings to drive informed business decisions at Wave.

### **Work Experience**

#### **Supply Chain Customer Solutions Analyst, mPharma - Apr 2021 to Present**

- Saved >\$400K in expiry risks by developing an automated alternative medication suggestions' tool, using data wrangling and deployed with Streamlit.
- Collaborated closely with operations and product teams in launching an Order Review Model for proprietary facilities utilizing Streamlit and Metabase resulting in cost-savings worth \$30K in one month.
- Built a data pipeline using BigQuery, implementing data quality improvements with Python and reducing data errors by 50%, leading to a more reliable and accessible data system.
- Created data connectors with custom SQL queries from BigQuery to Looker Studio and Google Sheets, improving data usability by 85% and increasing data visibility, resulting in better-informed business decisions.
- Developed Streamlit, Google Sheets, AppScript, and Excel dashboards, enhancing visibility of key revenue drivers by 60% for CRM and Order Processing data.
- Implemented a mock-up ETL process to automate data quality checks, resulting in a 65% decrease in data processing time and improving the overall efficiency of data management.

#### **Research Associate (Data Scientist), West African Centre for Cell Biology of Infectious Pathogens (WACCBIP) - Jun 2020 to Nov 2021**

- Implemented Principal Component Analysis using scikit-learn, numpy and pandas to improve the efficiency of feature selection models by 50%.
- Developed a feature selection algorithm based on Cluster Resolution Feature Selection using scipy and mlxtend identifying ~10 putative biomarkers from a pool of >60 biomarkers.

### **Work Experience (Volunteer)**

#### **Data/Operations Analyst Synlab Ghana - Jan 2023 to Present**

- Developed a web-based requisition application using Streamlit, Deta, Google Sheets, and Google Cloud, which resulted in a 70% improvement in internal requisitions processing.
- Created a cloud-based dashboard using Streamlit, Deta, and Google Cloud that enhanced operational visibility by 35% for business leads and c-suite executives.
- Designed a forecasting model by utilizing moving averages and Pareto analysis, resulting in a 70% improvement in projected revenue targets for 2023 while identifying key revenue drivers for the business.
- Developed No-SQL queries for fetching and parsing data from low cost cloud platform (Deta) reducing expenses in data infrastructure and technologies.

#### **Research Associate, University of Ghana - Dec 2019 to Present**

- Built an ML Classification Model with a >95% accuracy in differentiating between and origins of honey and indentifying the pure/adulterated honey products on the Ghanaian market.
- Trained more than 4 university undergraduates on employing data science in chemometrics.

#### **Skills**

Programming Languages: Python, AppScript, HTML

Business Intelligence Tools: Metabase, Power BI, Streamlit

Frameworks: Django, Django REST Framework, jQuery, AJAX

Data processing/wrangling: numpy, pandas, vaex, SQL

Machine Learning: scikit-learn, mlxtend

Data Visualization: plotly, matplotlib, seaborn, spreadsheets, Metabase

Databases: PostgreSQL

Cloud Services: GitHub, Streamlit, Google Cloud, Docker, Heroku, render, deta.

#### **Education**

Bachelor of Pharmacy, University of Ghana (2015 to 2019)

#### **Projects**

QuickHire | [Project Link](#) | Dec, 2022 - Present

Collaborated with Joel Anaman to develop a streamlit web app using the Google's Custom Search API to scour job boards via custom search keys

Brazilian E-commerce Analysis | [Project Link](#) | Mar, 2023 – Present

A Streamlit dashboard built for Ecommerce, Distribution, Customer and Forecasting Analytics.

Order Review Model | [Project Link](#) | Oct, 2022 – Present

Web Application in Streamlit for Order Validation, Insight Analysis and Flow casting.

#### **Data Science Publication**

[Evaluation of chemometric classification and regression models for the detection of syrup adulteration in honey](#) – Jun, 2022