

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 drive positive results and help organizations achieve their business goals.

Work Experience

Supply Chain Customer Solutions Associate, 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 in the first 12 months.
- Launched an Order Review Model for proprietary facilities using Streamlit, Python and Metabase resulting in cost-savings worth \$30K in one month.
- Enhanced visibility of key revenue drivers by 60% via CRM and Order Processing dashboards using Streamlit, Python, Google Sheets, AppScript and Excel.
- Developed a mock-up ETL process to automate a set of data quality checks resulting in a 65% decrease in data processing time.

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.

Contract Work Experience

Data/Operations Analyst Synlab Ghana - Jan 2023 to Present

- Improved Internal Requisition by 70% by developing a web-based requisition app using Streamlit, Deta, Google Sheets & Google Cloud.
- Enhanced operational visibility by 35% using a cloud based dashboard for business leads and c-suite executives using Streamlit, Deta & Google Cloud.
- Developed a forecasting model utilizing moving averages and Pareto analysis, resulting in a 70% improvement in projected revenue targets for 2023, while identifying and highlighting key revenue drivers.

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

CSGH | Nov, 2022 – Present

An All-in-one order processing and inventory web application built with Streamlit with a built in CRM and Order Processing Dashboard. Project Link Available on Request

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

Licenses & Certifications

Pharmacist - Pharmaceutical Society of Ghana (License Number: PSGH 5535)