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. My past projects have resulted in over $500K in cost-savings and hundreds of saved man-hours. With a strong proficiency in Python, SQL, and Spreadsheets, as well as experience in web development and data analytics, 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 (1 year 10 months)

- 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.
- Boosted efficiency in data acquisition by developing 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 (1 year 6 months)

- Implemented a Principal Component Analysis resulting in a 50% improvement in feature selection efficiency.
- Developed a feature selection algorithm based on Cluster Resolution Feature Selection using python, identifying approximately 10 putative biomarkers from a pool of more than 60 biomarkers.

Volunteer Work Experience

Data/Operations Analyst

Synlab Ghana - Jan 2023 to Present (2 months)

- Improved Internal Requisition by 70% by developing a web-based requisition app using Streamlit, Deta, Google Cloud & Python.
- Enhanced Operational Cost Visibility by 35% using a web-based dashboard for business leads and c-suite members using Streamlit, Deta, Google Cloud & Python.

Research Associate

University of Ghana - Dec 2019 to Present (3 years 2 months)

- 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.
- Assisted in training more than 4 project students on employing data science in chemometrics.

Education

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

Skills

Programming Languages: Python, AppScript, HTML
Frameworks: Django, Django REST Framework, jQuery, AJAX
Data processing/wrangling: NumPy, pandas, SQL, vaex
Machine Learning: scikit-learn
Data Visualization: plotly, matplotlib, seaborn, spreadsheets, Metabase
Databases: PostgreSQL
Cloud & Version Control: Docker, Heroku, render, deta, GitHub
Methodologies: Functional & Object-Oriented Programming, REST

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 an inbuilt 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](link) – Jun, 2022

Licenses & Certifications

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