

Louis Agyekum

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<https://louis-agyekum.github.io/>

DATA ANALYST/SCIENTIST

Highly skilled and results-driven Modelling Analyst with a strong background in data science and statistical analysis. Seeking a challenging position to leverage expertise in developing statistical models that optimize risk and reward decisions. Dedicated to driving business growth through data-driven insights and contributing to the success of organizations.

EDUCATION

Sustainable Finance (Master's Degree)

August 2021 – April 2023

Trent University, Peterborough - Canada

Statistics and Economics (Bachelor's Degree)

January 2016 – July 2020

University of Ghana, Accra Ghana

Statistics (Diploma)

August 2010 – May 2012

University of Ghana, Accra Ghana

WORK EXPERIENCE

Data Scientist, Trent University, Peterborough, Canada

September 2021 – April 2023

- ✓ Utilized statistical programs such as SAS, Python, and R to perform data analysis and develop models.
- ✓ Utilized SQL to extract, transform, and load data from diverse sources, ensuring data integrity and consistency.
- ✓ Designed and built interactive dashboards and reports using Looker, providing actionable insights and visualizations to stakeholders.
- ✓ Developed and maintained comprehensive databases to store and manage research data, ensuring efficient data retrieval and organization.
- ✓ Collaborated with a multidisciplinary team to identify and define project requirements and objectives.
- ✓ Conducted in-depth analysis of student enrollment, academic performance, and institution data, identifying trends and patterns to support decision-making processes.
- ✓ Presented key findings and recommendations to senior management, effectively communicating complex data analysis concepts in a clear and concise manner.

Data Scientist, MTN Communications, Accra-Ghana

August 2016– May 2021

- ✓ Leveraged statistical programs such as SAS, Python, and R to perform data analysis and develop predictive models.
- ✓ Collaborated with stakeholders across departments to understand requirements and gather necessary data for model development.
- ✓ Conducted statistical analysis to identify key factors influencing consumer behavior and financial performance.
- ✓ Developed data visualization dashboards using PowerBI to effectively communicate insights and recommendations to senior management.
- ✓ Demonstrated strong analytical skills, combining quantitative expertise with common-sense problem-solving abilities.

Data Scientist, Bank of Ghana

June 2012 – December 2015

- ✓ Conducted in-depth data analysis to identify factors predicting customer behavior including payment behavior, purchase activity, delinquency trends, and write-offs.
- ✓ Built normalized data from various sources by extracting, transforming, and loading data into BI tools like Tableau. Successfully integrated data from five different systems, resulting in a centralized data repository and improving data accuracy by 15%.
- ✓ Introduced and integrated predictive analytical techniques as a part of the core business analytics offerings by applying statistical and advanced analytical methods and modeling.
- ✓ Collected, cleaned, and validated diverse data sets from multiple sources, ensuring data accuracy and reliability.
- ✓ Collaborated with airport management and stakeholders to define key performance indicators and establish data-driven benchmarks for performance evaluation.
- ✓ Prepared and delivered regular reports and presentations to senior management, utilizing data visualizations to effectively communicate key findings, trends, and actionable recommendations.
- ✓ Designed and implemented automated data reporting systems using SQL, Power BI, and Tableau, reducing manual effort and improving reporting efficiency.

CORE SKILLS

- ✓ **Technical Skills:** Machine Learning (PCA, cluster analyses, decision trees, SVM, neural networks, ensemble methods), Data Mining, Big Data, Data Visualization, Generalized Linear Models, Time Series Analysis, Economic Research, Risk Modeling, Econometric modeling, Web-scraping , Cloud-based ETL
- ✓ **Programming Skill:** SAS, Python, R, Spark, SPSS
- ✓ **Data Visualization and Reporting tool:** Power BI, Tableau, Excel, Looker, Amazon QuickSight
- ✓ **Database:** MS SQL Server, Oracle SQL Developer, Redshift

- ✓ **Soft Skills:** Critical-Thinking, Problem-Solving, Active Learning, Effective Communication, Consulting, Ability to communicate technical and complex concepts to a non-technical audience

CERTIFICATIONS

- ✓ June 2021, IBM Data Science Professional
- ✓ Nov. 2020, Supervised and Unsupervised Learning with Sci-kit Learn (DataCamp)
- ✓ Feb. 2019, Analyzing and visualizing data with Excel (Microsoft)
- ✓ Jan. 2019, Querying Data with Transact-SQL (Microsoft)

TECHNICAL PROJECTS: Portfolio Website: <https://louis-agyekum.github.io>

“You Are What You Eat” Customer Segmentation | *Python, SQL, Machine Learning*

- Used a k-means clustering on grocery transaction data to split out customers into distinct “shopper types” that could be used to better understand customers over time, and to more accurately target customers with relevant content and promotions.

“Grocery Delivery Optimization” | *Python, SQL, Machine Learning*

- Created and applied a Genetic Algorithm in Python to search out a near-optimal route across 10 addresses. This led to estimated savings of up to 50% in both delivery time and fuel consumption over a route based on transaction order alone.