

# Louis Agyekum

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

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## DATA ANALYST/SCIENTIST

Experienced Data Scientist and Machine Learning Engineer with a proven record of developing and deploying machine learning models for decision-making and data analysis. Skilled in embedding models into production systems and building reusable data pipelines. Experienced in working with diverse data sets. Seeking to leverage my data modeling skills to solve business problems, and turn big and dirty data into valuable intelligence, easy to understand and used by management and business units for strategic decisions.

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## EDUCATION

### **Sustainability Studies (Master's Degree)**

Trent University, Peterborough, Canada

**September 2021 – April 2023**

### **Economics and Statistics (Bachelor's Degree)**

University of Ghana, Accra Ghana

**August 2016 – June 2020**

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## WORK EXPERIENCE

### **Data Scientist, Trent University**

**September 2021 – Present**

- ✓ Developed machine learning models such as conversion rate prediction and student performance attrition, to support decision-making in our chancellor's department.
- ✓ Worked on embedding models into production technology systems.
- ✓ Built reusable data pipelines and worked on diverse sets of data, including transactional, student behavior, and activities on campus.
- ✓ Recommend and build tools for the management of our machine learning stack.
- ✓ Championed data-driven culture by raising the University's analytics IQ through formal training, workshops, insights meetings, and presentation to senior leadership.

### **Credit, Fraud and Risk Analyst, MTN Telecommunications - Ghana**

**August 2018– August 2021**

- ✓ Conducted exploratory analysis that identified \$3M in annual fraud. Then built a corresponding Tableau dashboard that effectively communicated findings to execute the audience.
- ✓ Analyzed outlier data using Microsoft Excel Pivot Tables and V- Lookups.
- ✓ Trusted to conduct various ad-hoc analysis requiring the use of Oracle SQL and Microsoft SQL server.
- ✓ Managed projects that improve business operations through data analysis and research.

### **Data Analyst Intern, Ministry of Finance-Ghana**

**May 2017– August 2017**

- ✓ Conducted economic research, gathering data from multiple sources, and doing exploratory data analysis for my supervisor
- ✓ Designed and developed efficient, production-quality SQL using dbt.
- ✓ Provided insights into due debts using python and Google BigQuery.

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## 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, Statistics, A/B testing.
- ✓ **Programming Skill:** Python, R, Power BI, Tableau, Excel, SPSS, STATA
- ✓ **Database:** MS SQL Server, Oracle SQL Developer
- ✓ **Soft Skill:** Critical-Thinking, Problem-Solving, Active Learning, Effective Communication, Consulting, Ability to communicate technical and complex concepts to a non-technical audience

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## CERTIFICATIONS

- ✓ Feb.2023, Data Science Infinity Professional
- ✓ Jan 2023, AWS Certified Cloud Practitioner, Udemy
- ✓ November 2022, WorldQuant University Applied Data Science Lab (Machine Learning)
- ✓ August 2022, Machine for Data Scientist, Udemy
- ✓ August 2022, Microsoft Excel, From Beginner to Advanced, Udemy
- ✓ July 2022, The Complete SQL Bootcamp, Udemy