Louis Agyekum

Data Scientist - https://louis-agyekum.github.io

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EDUCATION

Big Data Analytics - Master's Degree
Trent University, Peterborough-Canada

Statistics - Bachelor's Degree
University of Ghana, Legon

CERTIFICATES

AWS Cloud Practitioner :(11/2022)
Cloud Practitioner certification is to prove knowledge of cloud concepts, core AWS services, AWS pricing, SLA, and lifecycle, and the fundamentals of cloud security, privacy, compliance, and trust.

Machine Learning Lab (WorldQuant): (10/2022)
"This certification provided me with hands-on experience in applying machine learning algorithms and techniques to real-world data science problems. It has given me the proficiency in working with popular machine learning libraries"

The Complete SQL Bootcamp: (07/2018)
This certification taught me the fundamental concepts and techniques of SQL, including data querying, manipulation, and management. It has equipped me with proficiency in working with popular database management systems, such as MySQL, and PostgreSQL, enabling me to manage large volumes of data.

PROJECTS

Portfolio Website: https://louis-agyekum.github.io

Grocery Delivery Optimization
"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 upon transaction order alone."

"You Are What You Eat" Customer Segmentation
Used 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.

SKILLS

Programming: *Python, R, MySQL, MATLAB, SPSS, STATA, MongoDB, Excel, Google Sheets, SAS, AWS environment.*

Data Visualization: Power BI, Tableau.

Software: *Metasploit, Splunk, Wireshark, Kali Linux, MetasploitEclipse, CodeBlocks, Forensic Toolkit.*

Libraries: *NumPy, pandas, Tensorflow, Keras, Pytorch, matplotlib, Scikit Learn*

WORK EXPERIENCE

Trent University – Data Scientist
09/2021 – 03/2023

- Developed and evaluated algorithms using machine learning and statistical modeling techniques to increase performance, quality, data management, and accuracy.
- Designed machine learning systems and self-running artificial intelligence (AI) Software to automate predictive models.
- Instilled valuable technical skills and knowledge within students by delivering curriculum for undergraduate and graduate-level courses in Python programming and introductory probability.
- Led various initiatives to promote a data-driven culture, including training sessions, workshops, insights meetings, and presentations to senior leadership.

MTN Group – Junior Data Scientist
08/2018 – 08/2021

- Developed a machine learning pipeline and trained models with the end-to-end Bayesian segmentation network, resulting in $400000 annual savings.
- Delivered multiple ad-hoc projects using data analysis tools, including Oracle SQL and Microsoft SQL servers.
- Analyzed outlier data using advanced Microsoft Excel skills, including Pivot Tables and V- Lookups, to drive business insights.

Data Analyst Intern
Ministry of Finance - Ghana
06/2017-09/2017

- Conducted comprehensive data analysis using Excel and SQL to inform the development of a national financial management information system.
- Presented data-driven insights and recommendations to senior leadership to improve decision-making and increase efficiency within the Ministry.
- Contributed to the development of data visualization dashboards using Power BI to track key performance indicators and monitor progress toward strategic goals.
- Developed and implemented a data quality assurance plan that reduced errors by 50%, improving the accuracy and reliability of critical data used for program evaluation and decision-making.