LOUIS AGYEKUM

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>> DATA SCIENCE | MACHINE LEARNING

MOTIVATION

*I am passionate about solving business problems using Data Science & Machine Learning. I **systematically** & creatively use my skillset to add tangible value to the team, the business, and the end-user. I am constantly learning, and always looking to improve.*

SKILLS & TOOLS

Programming: Python (Base, Pandas, Numpy, Matplotlib, Scikit-Learn, Keras), SQL, R, STATA

Machine Learning: Linear Regression, Logistic Regression, Decision Trees, Random Forest, KNN, k-means, PCA, Association Rule Learning, Causal Impact Analysis

Other: Statistics, Github, Data Visualisation, MS Office, Tableau, Jupyter Notebook, AWS, Microsoft Excel

EXPERIENCE

Data Scientist/Machine Learning Engineer - Trent University
SEPTEMBER 2021 - PRESENT

- Developed machine learning models such as conversion rate prediction and student performance attribution, to support decision making in our Chancellors department.
- Worked on embedding models into production technology systems.
- Built reusable data pipelines and worked on diverse sets of data, including transactional, student's behavior, and activities on campus.
- Recommend and built tools for 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.

Junior Data Analyst - Comet Real Estate Limited
JULY 2020 -AUGUST 2021

- Used SQL & Tableau to automate the extraction of real estate data, and create a dynamic weekly report that helped senior leadership understand and investigate trends over time, and diagnose potential issues in the real estate market.

PROJECTS

Grocery Delivery Optimization

- Created & applied a Genetic Algorithm in Python to search out a near-optimal route across 10 addresses. This lead to estimated savings of up to 50% in both delivery time and fuel consumption over a route based upon transaction order alone. This approach could be utilised across many industries as a way to find more optimal solutions.

"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 & promotions

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EDUCATION

BA (Statistics/Economics)
2016 - 2020 - University of Ghana
MA Sustainability Studies
2021- 2023 -Trent University

COURSES & CERTS

DATA SCIENCE INFINITY

Actionable Learnings: Extracting & manipulating data using SQL. Application of statistical concepts such as hypothesis tests for measuring the effect of AB Tests. Utilising Github for version control, and collaboration. Using Python for data analysis, manipulation & visualisation. Applying data preparation steps for ML including missing values, categorical variable encoding, outliers, feature scaling, feature selection & model validation. Applying Machine Learning algorithms for regression, classification, clustering, association rule learning, and causal impact analysis for measuring the impact of an event over time. Machine Learning pipelines to streamline the ML pre-processing & modelling phase. Deployment of a ML pipeline onto a live website using Flask & Heroku. Turning business problems into Data Science solutions.

APPLIED DATA SCIENCE LAB (WORLDQUANT UNIVERSITY)

Actionable Learnings: Through this data science certification, I have gained valuable experience in end-to-end data science projects, including data access and preparation techniques, data cleaning and exploration, building machine learning models for supervised and unsupervised tasks, and creating effective visualizations to explain data characteristics and model predictions to non-technical audiences. The hands-on experience equipped me with the necessary skills to access data from various sources, prepare data for for analysis, build and evaluate machine learning models, and communicate findings to non-technical stakeholders.

MICROSOFT EXCEL - FROM BEGINNER TO ADVANCED (UDEMY)

Actionable Learnings: Through my Microsoft Excel certification, I have comprehensive knowledge in Excel, from beginner to advanced level. I am proficient in Excel's basic functions and formulas, as well as advanced features such as PivotTables, macros, and data visualization. I have gained the ability to use Excel for data analysis, including data manipulation and cleaning, and data visualization. I am also able to create and manage complex spreadsheets and workbooks including working with large data sets . This certification has given me the confidence to use Excel to support data-driven decision making and improve efficiency in any organization.