TAIWO OWOSENI, MDS

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EDUCATION

Master of Data Science Sep '21 – Jun '22
University of British Columbia, Vancouver, BC, Canada
Award: UBC - MasterCard Foundation Scholar

Bachelor of Technology (Honours), Computer Science Jan '13 – Oct '18
Federal University of Technology, Akure, Nigeria
Award: Abdul-Kabir Aliu Foundation Scholar

Certifications
Vector Institute for Artificial Intelligence
AWS Cloud Practitioner **Link**
Correlation One Data Science for All / Women, Summer **Link**
Introduction to Big Data **Link**
Natural Language Processing with Classification and Vector Spaces **Link**

SKILLS

Machine Learning: Python, Decision Trees, Numpy, Pytorch, Scikit-Learn, NLTK, Hugging Face Transformers, Keras, Tensorflow
Data Analytics: R, Hadoop, MapReduce, Excel, PostgreSQL, PySpark, Matplotlib
Cloud Technologies: AWS Kinesis, AWS Lambda, AWS Glue, Open Stack, Athena, EC2, Docker, Linux, Kubernetes, Cloud Watch
Statistics: Regression, A/B experiments, ANOVA, R, Rstudio, PowerBI, Ggplot, Dplyr, Pandas

PROFESSIONAL EXPERIENCE

Graduate Teaching Assistant: Database in Data Science *Feb '22 – Apr '22*
Department of Computer Science, UBC *Vancouver, Canada*
- Explained SQL to 30 students, which resulted into positive feedback from the students
- Supervised 20 students' semester projects, and provided meaningful feedback after grading assignments
- Administered examination to over 30 students, to enforced all University exam policies

Software Engineer Intern *May '21 – Sep '21*
Sktime, Outreachy *Remote, United Kingdom*
- Refactored over seven existing forecaster classes to eliminate redundant code using python
- Improved documentation of the Sktime Library by 25% and wrote more tests for the forecasters and helper functions
- Led the annual Dev Week, and gave a presentation of contributions to open source to 14 people
- Represented sktime at the 2021 virtual Scipy conference, by presenting a poster to 3 interested audience

Business Intelligence Operations Analyst *Sep '20 – May '21*
Airtel Nigeria *Lagos, Nigeria*
- Improved reconciliation product in 2 months, by constructing a scheduled process with a keen focus on resolving system errors
- Wrote SQL queries to investigate over 100 fraudulent profiles and authenticated over 1,000,000 existing customer profiles
- Presented business reports to stakeholder and CTO to communicate market opportunities in 12 states over 6 months
- Revamped data dictionaries to match business processes for easier data manipulation in the business team

Lead Data Analyst (Contract) *Jun '20 – Sep '20*
OneHealth Nigeria *Lagos, Nigeria*
- Supervised and trained two sales pharmacists to practice quality data entry, and communicate findings with dashboards
- Identified top customers' buying patterns and proposed sales strategies that increased sales by 20%
- Sold 28 products three months before shelf life, by using basket analysis algorithm to analyse complementary products
- Built a functioning ETL pipeline to implement data quality control, which increased creation of visuals efficiency by 50%

PROJECTS

A Tweet today, a ban tomorrow: Abortion trends in the United States **Link**
- ***Tools:*** Tableau, Python, NLTK, Pandas, Scikit-Learn, Github
- ***Goal:*** *Analyse abortion trends and build a sentiment analysis model of abortion tweets in the United States*
- ***Method:*** Developed algorithms to scrape > 50,000 observations to get a rich and diverse data set for analysis communicated analytic findings to leaders and 3 external partners using Tableau visuals
- ***Outcome:*** Awarded most distinguished project in the Correlation One's DS4A 2022 cohort

Scheduled Real time Data pipeline to scrape Earth Quake Data **Link**
- ***Tools:*** *Cronjob, Pandas, Github Actions*
- **Goal:** Build a real-time data pipeline integrated in python scripts, to ingest scraped twitters generated by @earthquakeBot
- **Method:** Transformed scraped data and partition data. Created an heat map to show magnitude of earth quake in the world

Detecting Photo of Photo
- ***Tools:*** Python, Dash, HTML, CSS, Pandas, Scikit-Learn, Github, Numpy
- ***Goal:*** Designed a Machine learning model to distinguish between recaptured and original images
- ***Method:*** Trained, validated and tested the model on hundreds of images using Ridge Regression model. Deployed a web-based application that distinguishes between recaptured and original images
- ***Outcome:*** Three members of the Capstone partner's authentication team adopted the web product to authenticate images