

# TAIWO OWOSENI

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## Educational History

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**Master of Data Science** Sep '21 – Jun '22  
University of British Columbia, Vancouver, BC, Canada  
*Award: UBC - MasterCard Foundation Scholar (\$90,000)*

**Bachelor of Technology (Honours), Computer Science** Jan '13 – Oct '18  
Federal University of Technology Akure, Nigeria  
*Award: Abdul-Kabir Aliu Foundation Scholar (\$3,000)*

## Professional History

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**Graduate Teaching Assistant** Feb '22 – Apr '22  
*University of British Columbia* *Vancouver, Canada*

- Developed and implemented a curriculum to teach advanced SQL to 30 Computer Science graduate students, including concepts such as joins, aggregation and window functions
- Supervised students' semester projects, and provided meaningful feedback after grading assignments
- Administered examination to over 30 students, to enforced all University exam policies

**Business Intelligence Analyst** Sep '20 – May '21  
*Airtel* *Nigeria*

- Created a SQL script to query millions of customer records from a SQL Server database. Analysed churn patterns from queried data using logistic regression models implemented in R, and leveraged insights to improve customer retention strategies
- Developed an analytical Power BI dashboard categorizing and visualizing customer personas, by integrating customer data in the Snowflake data warehouse with Power BI via an ODBC driver
- Collaborated with non-technical stakeholders to build research questions, implement analyses and visualize sales and marketing opportunities for an innovative telecommunications plan targeted at Generation Z customers
- Designed and documented data dictionaries to match business use cases, improving data warehouse navigation and enhancing the productivity of several technical and non-technical teams
- Automated a Python script to run monthly investigations of fraud and identity theft, and authenticate millions of existing customer profiles in an Oracle Database

**Data Analyst** Jan '19 – Sep '20  
*OneHealth* *Nigeria*

- Imported and processed user behavior data from Google Analytics for A/B testing, to analyze user interaction with versions of the OneHealth website, informing sales and marketing strategies
- Collaborated with technical and non-technical stakeholders to create an ETL pipeline, that scraped, cleaned, processed, stored and analyzed product data from competitor' website, to implement new product pricing strategies, resulting in an increase in revenue
- Supervised and trained sales pharmacists in data entry and data visualization in Tableau dashboards

## Skills

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Python (Pandas, Numpy)	R	Machine Learning	Power BI
Excel	Git (GitHub)	SQL Database (Postgres)	Agile Methodology
Scikit-learn	Docker	NoSQL Database (MongoDB)	Snowflake
Experimental Design	Tableau	AWS (S3, Glue, Kinesis)	Statistics

## Selected Projects

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### Detecting Photo of Photo

- *Tools:* Python, Dash, HTML, CSS, Pandas, Scikit-Learn, Github, Numpy, Github Project
- *Goal:* Designed a proprietary predictive machine learning model to distinguish between recaptured and original images used in advertising and marketing
- *Method:* Trained, validated and tested the model on hundreds of images using Ridge Regression model
- *Outcome:* Integrated final model in web-based product, and deployed the model on AWS SageMaker

### Scheduled Automated Real-time Data Pipeline to Scrape EarthQuake Data

[Link](#)

- *Tools:* Cronjob, Pandas, Github Actions, Python
- *Goal:* Built a real-time data pipeline integrated in Python scripts, to ingest web scraped tweets generated by @earthquakeBot
- *Method:* Transformed and partitioned scraped data. Created a heat map to visualize the magnitude of earthquakes across global regions

### Predicting Types of Cyberbullying from Tweets

[Link](#)

- *Tools:* Python, NLTK, Pandas, Scikit-Learn, Github, Git, Pytorch, Hugging Face
- *Goal:* Compared the accuracy of deep learning models used to categorize tweets into cyberbullying classes
- *Method:* Trained, validated and tested data on CNN, LSTM and Pretrained Transformer
- *Outcome:* Awarded the most distinguished project in the Vector Institutes Machine Learning Program, and won a cash prize of \$500