

Okunola Adebola Orogun

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EDUCATION

University of Hertfordshire

Master's degree (Data science and Analytics)

Hatfield, United Kingdom

Jun 2025

Federal university of Technology

Master's degree (Computer science)

Akure, Nigeria

Sep 2017

SKILLS

• **SQL** (SQL Server, MySQL, PostgreSQL) • **Python** (pandas, matplotlib, ggplot2, beautifulsoup2, scikit-learn, Tensorflow, PyTorch, Statsmodel) • **PowerBI** • **Excel** (VLookup, Conditional Formatting, Pivot Tables) • **R programming** (dplyr, shinny, ggplot2, Caret, tidymodels), **AWS**

WORK EXPERIENCE

THQU C.I.C

Data Scientist (Volunteer)

London, United Kingdom

Mar 2023 - Present

- Developed two highly effective course and resource recommender algorithms that leveraged student interests and learning history to recommend top 20% options, increasing student engagement by 25% and reducing drop-out rates by 10%.
- Leveraged Python programming language and statistical analysis techniques to analyse student data, identifying patterns and developing two personalized learning path algorithms that improved student outcomes by 15%.
- Implemented an A/B test in a Python script, used SQL to gather and pre-process data, and leveraged GitHub to collaborate with team members, ultimately leading to a successful data-driven decision in a project.

GitcoinDAO

Data Analyst

Remote

Nov 2021 - Apr 2023

- Analyzed the impact of funding on more than 300 grant projects from rounds 13-15, identifying a 40% increase in efficiency and productivity among grantees.
- Leveraged advanced statistical techniques and machine learning algorithms to develop an effective predictive maintenance model, resulting in a 10% increase in fraud detection rate and reducing imminent grant fraud by 15%.
- Developed and implemented the modularised algorithm for organisation's passport protocol, resulting in a 90% reduction in false positives and a 25% increase in user authentication accuracy.

Adekunle Ajasin University

Lecturer

Ondo State, Nigeria

Oct 2017 - Nov 2022

- Led a team of 400-level students to victory in the Ondo- state inter-tertiary institution programming hackathon, showcasing expertise in data analysis, algorithm development, and team management.
- Prepared at least 60 students annually for final year (400-level) examinations, leveraging strong analytical and problem-solving skills to identify knowledge gaps and develop targeted study plans that resulted in a 78% pass rate.

PROJECT EXPERIENCE

GitcoinDAO

Remote

Grant Round Analysis

Jun 2022

- Utilized Python to extract, clean, and transform data from various data sources, including Gitcoin's database and external APIs, to create a comprehensive data set for analysis.
- Performed data exploration and analysis using SQL to identify patterns and trends in the data, and generate insights to inform decision-making.
- Created data visualizations and dashboards using PowerBI to communicate findings to stakeholders and facilitate data-driven decision-making.

THIQU C.I.C

Remote

Truth graph visualization

Mar 2023

- Worked closely with stakeholders to identify requirements and design a scalable and efficient solution that could handle large amounts of data.
- Leveraged graphDB's advanced graph data model to represent trust relationships between entities, enabling flexible querying and analysis of the data.
- Implemented a range of data processing and visualization techniques in Python, including graph algorithms, network visualization libraries, and custom data pipelines to generate dynamic and interactive visualizations of the trust networks.

Remote

FREELANCE

Online Retail Analysis

April 2023

- Conducted advanced data analysis and visualization using SQL and Python libraries (Pandas, Plotly, Dash) to extract insights from a large-scale online retail dataset.
- Generated interactive dashboards and reports, resulting in a 27% increase in revenue by identifying customer spending patterns and trends.
- Uncovered correlations between variables, such as quantity and unit price, resulting in a 15% optimization in pricing strategy and inventory management.

LEADERSHIP EXPERIENCE

GitcoinDAO

Remote

Sybil Analysis Lead

Sep 2022

- Led the Loki set detection unit of fraud detection and defense workstream at GitcoinDAO for almost two years, overseeing a team of analysts and developers responsible for identifying and mitigating fraudulent activity on the platform.

THIQU C.I.C

Remote

Data Visualization lead

Mar 2023

- Led the design and development of complex data visualizations using Python libraries such as Matplotlib, Seaborn, and Plotly, as well as SQL queries and stored procedures to extract and transform data from various sources.