Alexander Agbu

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📍 United Kingdom

Professional Summary

Experienced and personable Data Scientist with a proven track record of delivering end-to-end projects across diverse sectors- Real Estate, Blockchain, Energy, and Telecoms, ensuring high-quality results within cross-functional teams.

I am Proficient in collaborating within cross-functional teams, where I consistently ensure high-quality results and maintain meticulous control over project scope.

In an ever-evolving technological landscape, I aim to drive positive change, leveraging my expertise to enhance industries, businesses, and people's lives through data-driven insights and innovative solutions.

Professional Areas:

- Data Science- (Python, R, SQL, M, PostgreSQL)-Advanced
- Data Analysis- (Data Exploration, Presentation, Data Engineering, Data Collation, Excel)-Advanced
- Data Visualization- (R programming, PowerBI, Seaborn, matplotlib, Tableau)-Intermediate
- Machine Learning- (Regression, Clustering, Classification, ANOVA, Natural Language Processing)-Advanced
- Cloud Analytics- (Oracle, AWS, AZURE)-Intermediate
- Space Tech – (ArcGIS, ERDAS IMAGINE, ENVI, Google Earth Pro)

Education

- Masters in Data Science   University of Salford 2024
- Nanodegree in Programming in Data Science   Udacity 2023
- Masters in Computer Engineering   University of Uyo 2022
- Bachelors in Electrical Electronics Engineering Madonna University 2014

Training

- Kaggle BIPOC Mentorship Program in Data Science
- Oracle Cloud Data Management Certified Foundations Associate
- Udacity- (GIT, Python, PowerBI, SQL, Machine Learning)
- Knowledge of AWS and AZURE- Certifications in view
- Google Professional Data Analytics
- Remote Sensing Satellite Image analysis with ENVI
- Synthetic Aperture Radar Technology
- People Management

Professional Experience

Data Science Intern – Notting Hill Genesis   **Jan 2024 to date.**

Overview: One of the leading housing associations in the United Kingdom, specializing in real estate development, management, and affordable housing solutions

- Leading a Machine learning project on Predicting the risk level for tenants to fall into Arrears.
- Collaborating with senior data scientists and a cross-section of teams to develop a robust model to analyze and reduce Tenants' Complaints.
- Conducting continuous exploratory data analysis, to uncover patterns and insights from large datasets, revealing a significant financial gap created by tenant arrears.

Data Science Apprentice – Kaggle BIPOC   **Aug 2023 – Nov 2023**

Overview: A program by Kaggle set to train and mentor Data Scientists

- Developed a machine learning predictive model with 80% accuracy that predicts when Telecoms customers will churn the business.

- Created data-driven dashboards with PowerBI to Report findings.

- Implemented complex database queries using SQL to generate insights for a Rental business.

Data Analyst - **Bionic Owls C-Corps**   **Mar 2022- Aug 2023**

Overview: A reputable Gaming & Finance (Gamefi) company Specializing in developing digital collectibles and blockchain games.

- Grew retention rate by 23% using Python for statistical analysis of growth experiment results and churn analysis to better understand the Community member's behavior and improve retention.

- Implemented data-driven strategies that drove sales of blockchain digital collectibles (NFT), and community growth to 50,000 active members across all platforms within the first 9 months, thereby positioning the company as a frontier within the Gamefi ecosystem.

- Created dashboards for cross-functional teams to showcase KPIs achievements and report performance against the roadmap.

Space Data Analyst- National Space Research and Development Agency   **Aug 2018- Dec 2022**

Overview: Organization responsible for the application of space science and technology for sustainable socio-economic development.

- Conducted comprehensive exploratory and image analysis of satellite imagery, employing advanced data analysis techniques that provided critical data for government decision-making processes.

- Extracted and analyzed big data geospatial information datasets, enabling data-driven decisions and solutions for complex environmental challenges.

- Facilitated knowledge transfer sessions by conducting monthly tutorials to educate stakeholders on space-based techniques and technology advancements.

Business Analyst- Ikeja Electric PLC   **Jan 2017- July 2018**

- Directed the product development process required to successfully launch multiple SAAS-based applications, thus improving the unit's revenue performance by 200% in 1.2 years.

- Facilitated the product development cycle from prototype development to deployment of an in-house field reporting app used by over 1200 employees which reduced operations costs by 30%.

- Managed the deployment of a dashboard using Excel to review the productivity and performance of products and team members to set performance levels.

- Evaluated current workforce field performance process, identified opportunities for improvement, and developed and implemented solutions that were responsible for a 70% increase in productivity.

- Led the team's effort in the installation and commissioning of over 3500 meters to the deadline as part of the unit's initiative to reduce the metering gap by 20%.

Achievements & Projects

Customer Analytics Projects:
- Developed a Customer Churn Predictive Model using Python and SQL, providing insights for targeted retention strategies.
- Optimized Customer Segmentation for personalized experiences, enhancing overall customer satisfaction and loyalty.

Customer Satisfaction Modeling Project:
- Created a Predictive Model to assess customer satisfaction levels by estimating review ratings, providing actionable insights for service improvement.

Data Management and Analysis Projects:
- Investigated and queried a DVD Rental Database, with PostgreSQL and MySQL to extract valuable insights and optimize the business data management processes.
- Designed a comprehensive Library Database with SQL.

Publications

- "Software tool to store IoT device data onto a blockchain" published in Elsevier's Software Impacts, May 2023. DOI: 100511
- "Upper-air meteorological dataset for Uyo, using radiosonde" published in Elsevier's Data in Brief, Volume 46, February 2023. DOI: 108904
- "Geospatial Assessment of Urban Heat Island in Port Harcourt L.G.A, Rivers" published in the International Journal of Sciences: Basic and Applied Research (IJSBAR), 2021