

Owen Nda Diche

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EDUCATION

University of Hertfordshire

Masters of Science, Data Science

Hatfield, UK

Sep 2025 – Sep 2026

Nile University of Nigeria

Bachelors of Engineering, Petroleum and Gas Engineering

Abuja, Nigeria

Sep 2019 – Nov 2024

TECHNICAL SKILLS

Languages and Databases: Python, SQL, PostgreSQL, SQLite

Analytics Engineering: Pandas, NumPy, data cleaning, feature engineering, SQL data modelling, ETL workflows, data marts

Machine Learning and NLP: Scikit learn, gradient boosting, random forest, NLP, TF IDF, model evaluation, threshold tuning

GenAI and Applied AI: Local LLMs, prompt engineering, document intelligence, structured outputs, AI assisted analysis

Visualisation and Tools: Streamlit, Plotly, Matplotlib, dashboards, Git, Jupyter, Apache Spark

PROFESSIONAL EXPERIENCE

National Assembly of Nigeria

Abuja, Nigeria

Data Analyst Intern

Jan 2025 – Aug 2025

- Strengthened legislative reform proposals by analysing 30+ petroleum regulations for actionable insights.
- Delivered 95% accurate monthly reporting by automating and maintaining a legislative oil-production dashboard.
- Modelled renewable scenarios and co-authored a whitepaper forecasting 20–25% emissions reductions.
- Accelerated decisions by 15–20% by converting complex upstream datasets into clear policy briefs.

NNPC Engineering and Technical Company Limited (NETCO)

Abuja, Nigeria

Project Data Analyst Intern

Mar 2023 – Aug 2023

- Managed structured project datasets and documentation ensuring traceability and data integrity across lifecycle stages.
- Applied EDA to uncover energy efficiency patterns, enabling insights that supported ~12% cost reduction.
- Automated & digitalised data storage systems, improving query and retrieval speed by 30% and accelerating reporting pipelines.
- Collaborated with teams to diagnose workflow issues, identified workflow bottlenecks that improved task turnaround by 18%.

INDUSTRY SIMULATIONS

Tata | GenAI Powered Data Analytics

Jul 2026

- Conducted GenAI assisted exploratory data analysis to assess data quality and identify customer delinquency risk indicators.
- Developed a no code predictive modelling framework for risk assessment, defining model logic and evaluation criteria.
- Designed an agentic AI collections strategy with automation, human oversight, regulatory compliance and AI safeguards.

Lloyds Banking Group | Data Science Job Simulation,

Dec 2025

- Built a customer churn prediction model, achieving ROC-AUC 0.82 using Random Forest and benchmark algorithms.
- Optimised model performance via GridSearchCV, reducing error and improving predictive reliability.
- Identified top churn drivers through feature importance analysis, generating actionable retention insights.

PROJECTS

Timor Leste Development Intelligence | Python, Streamlit, Plotly, PDF Extraction, Local LLMs

- Built an AI powered dashboard that transformed a 160 page UNDP report into indicators, themes, findings, and factual evidence.
- Processed 105 tables and 40 evidence chunks, preserving page level references to support transparent analysis and verification.
- Used local LLMs including Qwen 2.5 and Llama 3.2 to generate structured insights and support evidence grounded evaluation.

Customer Retention & Revenue Analytics Warehouse | SQLite, SQL, Python, Streamlit

- Built a 14 table analytics warehouse to track churn, revenue, performance & customer lifetime value from subscription data.
- Structured 5 raw, 5 staging, and 4 mart tables in SQLite, creating a reusable SQL workflow for cleaner reporting and analysis.
- Developed an interactive streamlit dashboard to monitor £51K+ net revenue across 24 months of activity for 120 customers.

Intelligent Support Ticket Routing with NLP | Python, TF-IDF, Scikit-learn, Streamlit

- Built an NLP based ticket routing workflow that classifies support requests into the correct team using TF-IDF and ML.
- Improved routing performance to macro F1 0.962 and added confidence based review rules to flag low certainty tickets.
- Developed a streamlit dashboard that translates model outputs into a faster, more consistent workflow for support operations.

LEADERSHIP

Data Science Society | Workshop Coordinator

Sep 2025 – Present

- Lead 10+ data workshops on Python, SQL, Neural networks and machine learning concepts for student members.

Society of Petroleum Engineers | Student Representative

Nov 2019 – Nov 2024

- Coordinated 20+ industry events and webinars, strengthening student engagement with energy sector trends & technical topics.