

Owen Nda Diche

Data Analyst | Data Scientist

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PROFILE

Data Analyst and Scientist with an MSc in Data Science and experience using SQL, Python, machine learning and applied AI to solve business and operational problems. Skilled in data modelling, dashboards, predictive analytics and automation, with the ability to translate complex findings into clear, actionable insights.

CORE 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

Applied AI: local LLMs/VLMs, prompt engineering, document intelligence, structured outputs, PyTorch, U-Net, computer vision

Visualisation & Collaboration: Streamlit, Plotly, Matplotlib, Jupyter, Git, version control, peer code reviews, team coordination

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 advanced 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%.

PROJECTS

Smart Mock Interview Assistant: | Python, Flask, NLP, Sentence-BERT, TF-IDF, Bi-LSTM

- Led a six person team delivering a deployment ready NLP interview assistant; delegated tasks and coordinated integration.
- Oversaw response scoring with Bi-LSTM, Sentence-BERT, and TF-IDF, adaptive progression, feedback, and PDF/email reports.
- Coordinated version control and peer code reviews while integrating 467 Q&A records across seven technical domains.

Emergency Department Patient Flow Analytics | Python, MySQL, Streamlit, Scikit-learn, Altair

- Collaborated in a two person team analysing 16,025 NHAMCS emergency department visits across waits, acuity, outcomes.
- Supported review of a leakage controlled wait risk evaluation achieving ROC AUC 0.715 & reporting a 14-minute median wait.
- Participated in peer code reviews & version controlled collaboration, supporting consistent documentation and analysis.

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

- Built an evidence grounded AI pipeline transforming a 160 page UNDP report into traceable indicators, themes, trends findings.
- Extracted 105 tables and 40 page aware evidence chunks across eight sections, preserving page level references.
- Used Qwen 2.5 and Llama 3.2 with structured JSON and independent evaluation to deliver a five page Streamlit dashboard.

EDUCATION

University of Hertfordshire

Hatfield, UK

Masters of Science, Data Science

Sep 2025 – Sep 2026

Nile University of Nigeria

Abuja, Nigeria

Bachelors of Engineering, Petroleum and Gas Engineering

Sep 2019 – Nov 2024

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.