Onyeka Ogbonna

MSc Applied Data Science | Data Analysis

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PROFILE

MSc Applied Data Science graduate (Merit) and mechanical engineer with a research and design background at PRODA, Nigeria. I turn business problems into quantified recommendations using SQL, Python and Power BI: analysis reconciled to control totals, with assumptions and limitations stated. Seven public project case studies, two with live dashboards, plus live business websites. Looking for data analyst roles where I can apply these skills to real business problems.

TECHNICAL SKILLS

Data and analytics: SQL (DuckDB), Python (pandas, NumPy), Power BI and DAX, Tableau, advanced Excel
Statistics and modelling: indirect standardisation, funnel plots, difference-in-differences, scikit-learn, XGBoost, model evaluation
GenAI and agents: RAG with hybrid retrieval, LangGraph agents, LLM evaluation, guardrails; currently deepening LangChain and embeddings
Engineering and deployment: FastAPI, Pydantic, Docker, Git, GitHub Actions, pytest, TypeScript, Astro, Tailwind CSS, Cloudflare
AI-assisted development: Claude Code, OpenAI Codex
Engineering and safety: mechanical design, agricultural equipment design, NEBOSH health and safety

PROJECTS

Card Fraud and Disputes Performance Review onyekaogbonna.com/dashboards/card-fraud
SQL, DuckDB, Python, cost modelling (synthetic data)

- Showed that a card fraud engine reported as £135k of losses actually cost £909k once false declines, chargebacks and investigator time were counted, using SQL rule evaluation over 2.4 million transactions in DuckDB.
- Measured the cost of false declines with a matched difference-in-differences design and placebo test, and recommended a rule change that saves £118k a year inside a 20% fraud-loss tolerance.

Prescribing Variation and Medicines Optimisation onyekaogbonna.com/dashboards/prescribing
SQL, DuckDB, Python, funnel plots (synthetic NHSBSA-schema data)

- Showed that a GP practice league table ranks patient age (r = +0.73) and that age-sex standardisation removes the effect (r = 0.00), across 6,300 practices and 8.8 million prescribing rows.
- Built funnel plots that flagged genuine outliers at 65% precision against 47% for the league table, reconciled totals to source, and wrote a practice report for a clinical audience.

UK Property Deal Analyser github.com/codewithkachi/uk-property-deal-analyser
SQL, DuckDB, Power BI

- Analysed 2.9 million Land Registry transactions in SQL, joined them to ONS rent data and built a transparent deal-scoring model. Delivered a Power BI dashboard specification with a star schema and DAX measures.

Manufacturing Downtime and Maintenance Cost Analysis github.com/codewithkachi/manufacturing-downtime-analysis
Python, Excel, Power BI

- Built failure-mode KPIs and a documented cost model showing two failure modes carry 70% of a modelled 2.3M GBP downtime cost. Produces an Excel KPI report and Power BI dashboard from one command.

Predictive Maintenance MLOps Platform github.com/codewithkachi/predictive-maintenance-mlops
Python, XGBoost, FastAPI, Docker

- Built an XGBoost failure classifier on the AI4I 2020 dataset (PR-AUC 0.888) with a cost-tuned alert threshold that catches 96% of failures.
- Served predictions through a Dockerised FastAPI service with SHAP explanations and a drift monitor written from scratch. CI retrains the model, runs the tests and smoke-tests the container on every push.

Live business and portfolio websites
Astro, TypeScript, Tailwind CSS, Cloudflare

- Built and deployed live sites for a property business (primelinkestates.com), a cleaning company (winbrightcleaninglimited.com) and my own portfolio (onyekaogbonna.com), each from brief to live domain, using Claude Code.
- Building a bakery website in Lagos with an order-enquiry flow that hands off to WhatsApp, form validation and automated tests (in progress).

EXPERIENCE

Security Guard 04/2025 to present

Prime-Secure, UK

- Access control, patrols and CCTV monitoring, and first response to incidents. Write clear incident reports and keep daily logs and shift handover notes.

Security Officer 04/2023 to 04/2025

Alpha Security, UK

- Kept detailed activity and incident logs and dealt with staff and the public in a customer-facing role.

Engineer, Research and Design Mar 2014 to Sep 2022

Projects Development Institute (PRODA), Enugu, Nigeria

- Researched and designed agricultural equipment, producing designs for technicians to build.
- Turned requirements into workable designs and documented them clearly for the workshop team.
- Planned project workflows and assigned responsibilities, improving cycle times and efficiency.
- Reported project status to stakeholders and gave technical advice on engineering challenges.
- Supervised workshop-floor activity and tutored interns in research writing and engineering practice.

EDUCATION

MSc Applied Data Science (Merit) 2024

University of Sunderland

BEng Mechanical and Production Engineering

Enugu State University of Science and Technology

CERTIFICATIONS AND TRAINING

- Full Stack Generative AI and Agentic AI Bootcamp, Krishnaikacademy (2026)
- DevOps, MLOps and LLMOps Engineering Bootcamp, Euron (2026)
- Power BI, Codebasics (2025); Excel, Codebasics (2024)
- COREN engineering registration (2018); Nigerian Society of Engineers (2016)
- NEBOSH: Management of International Health and Safety; Health and Safety Practical Application (2014)

AVAILABILITY

Open to remote roles in the UK, and hybrid or on-site roles across Newcastle, Gateshead, Sunderland and Durham. Notice period: 2 weeks.