

OLUWADAMILOLA O. ONASANYA

Data Scientist | Data Analyst

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PROFILE

First-Class Computer Science with AI graduate (UWE Bristol) and MSc Information Technology student who turns messy real-world data into decisions. Built forecasting, sentiment analysis and recommendation models for 10+ freelance clients, analysed anonymised clinical records to measure treatment response at the Public Health Bureau, and delivered a 98% accurate ML ensemble backed by feature importance analysis. Strong in Python, SQL, statistical analysis, A/B testing and data visualisation. Seeking graduate and internship roles in data science and data analysis.

TECHNICAL SKILLS

Languages & Databases: SQL, Python, R, PostgreSQL, Redis, JavaScript
Data Analysis: Pandas, NumPy, Exploratory Data Analysis (EDA), Data Cleaning & Preprocessing, Statistical Analysis, Statistical Modelling, A/B Testing, Time-Series Analysis, Feature Engineering, Data Pipelines (ETL)
Data Visualisation: Matplotlib, Seaborn, Plotly
Machine Learning: scikit-learn, XGBoost, SHAP, PyTorch, TensorFlow, Supervised & Unsupervised Learning, Predictive Modelling, Forecasting, NLP, Sentiment Analysis, Recommendation Systems, Model Evaluation
Tools: MLflow, Git, GitHub Actions, Docker, AWS, FastAPI

EDUCATION

MSc Information Technology, *University of the West of England, Bristol* Sep 2026 – Present
BSc Computer Science with Artificial Intelligence (First Class Honours), *UWE Bristol* Sep 2023 – Jul 2026
Dissertation: Nourish Neural, ML ensemble (98% accuracy) with feature importance and ablation analysis for household food waste reduction.

EXPERIENCE

Full-Stack AI & Systems Engineer, *Public Health Bureau* May 2026 – Present

- Refine data-mining algorithms analysing anonymised EMR histories to calculate treatment response deltas, giving clinicians data-driven insight into medication efficacy and side-effect profiles
- Built a local data preprocessing pipeline that de-identifies patient PII before external API routing, with zero sensitive data leakage and 100% NDPR compliance
- Write Python and Node.js integration tests that validate real-time database calculations, sustaining a 100% pass rate
- Optimise local RAG search (Ollama, Qdrant, PubMed API fallback) so clinicians can query medical guidelines offline

AI, Data & Software Developer (Freelance), *Fiverr* Aug 2025 – Present

- Delivered data-driven tools for 10+ e-commerce, professional services and retail clients, improving operational productivity by 40% on average
- Built a sales forecasting model (35% inventory accuracy improvement), sentiment analysis engine (60% faster complaint response) and recommendation engine (28% conversion uplift)
- Built data pipelines and an AI assistant that automates 80% of customer enquiries

PROJECTS

Nourish Neural | *Food waste prediction (dissertation)* | github.com/Damzy-23/NourishNeural

- Trained a heterogeneous ensemble (Random Forest 40%, Gradient Boosting 30%, Neural Network 30%) to 98% classification accuracy on 10,000 samples built from UK food safety guidelines
- Feature importance analysis identified perishability, days since purchase and category as the dominant waste predictors; ablation analysis tested ensemble weights; SUS usability score of 81.3

AgriSense | *Crop yield and disease intelligence*

- XGBoost yield predictor explained with SHAP values, plus a fine-tuned ResNet-50 (92%+) with Grad-CAM; MLflow tracking and drift detection

SatSignal | *Time-series anomaly detection (in development)*

- LSTM autoencoder for unsupervised anomaly detection on multivariate NASA/ESA spacecraft telemetry, benchmarked against an Isolation Forest baseline (92%+ detection accuracy)

ACCOMPLISHMENTS & LEADERSHIP

- President, AI Innovators Society, UWE Bristol (2025 – 2026):** led an 8-person committee and ran AI hackathons, workshops and speaker events for 100+ student members.
- 1st Place, RUNCHOW Hackathon (Nov 2025):** solo developer, beat full teams by building a complete AI platform in 6 hours.
- Google DeepMind x Cactus Hackathon, UCL East (Feb 2026):** designed parallel race routing (on-device vs cloud), evaluated on F1, latency and efficiency.
- Tech Volunteer, Tech Nexus (Apr 2026):** designed and delivered a one-month programme on tech fundamentals, data literacy and cybersecurity to 20-25 students, with 100% completion.
- Student Career Coach and PAL Leader, UWE Bristol (2024 – 2026):** coached students on SWE, data and AI applications; led weekly Python and DSA sessions, lifting engagement by 30%.