DONIEL O. AMOSU

ARTIFICIAL INTELLIGENCE MSc GRADUATE | AI & DATA SCIENCE

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PROFILE

I have a Computer Science background and an MSc in Artificial Intelligence with Distinction from the University of Plymouth. My work spans machine learning, deep learning and optimisation, from preparing data and developing models to evaluating results. My professional experience includes Power BI reporting, SQL and front-end development. I am looking for an AI or Data Science role where I can apply this experience to practical problems and explain findings clearly.

EDUCATION

MSc Artificial Intelligence | University of Plymouth

2025 | Distinction

Dissertation: Multimodal Activity Recognition on Wearable Devices Using CNN-LSTM Fusion of 3D Pose and IMU Data.

BSc Computer Science | Esfam-Benin University, Republic of Benin

2019–2023

OND Computer Science | Osun State Polytechnic, Nigeria

2014–2016

TECHNICAL SKILLS

Programming & data: Python, R, SQL, pandas, NumPy; data cleaning and exploratory analysis.

Statistics & machine learning: hypothesis testing, regression, cross-validation, classification, clustering, CNNs, LSTMs, evolutionary optimisation, scikit-learn, PyTorch, XGBoost and OpenCV.

Reporting & tools: Power BI, DAX, Excel, ggplot2, R Markdown, Git/GitHub and Microsoft Azure.

SELECTED DATA SCIENCE PROJECTS

Multimodal Activity Recognition | MSc dissertation

Individual research | Python, PyTorch, MM-Fit

- Investigated how combining body-pose and wearable sensor data could support activity recognition, addressing differences in sampling rates and input structure.
- Prepared aligned sequences and implemented pose-only, IMU-only and CNN–LSTM fusion models to examine the contribution of each input.
- Used class-level evaluation to examine model behaviour and developed my understanding of class imbalance, sequence modelling and the constraints of wearable inference.

Customer Satisfaction Analysis

Group project | R, R Markdown, ggplot2

- Our group prepared 655 survey records to investigate differences between business and individual customers.
- The analysis used statistical tests, regression and visualisation to examine satisfaction patterns and relationships between contract length and monthly bills.
- The group reported its findings in R Markdown, considering the difference between association and causation.

SELECTED DATA SCIENCE PROJECTS | CONTINUED

Pose Estimation & 3D Reconstruction

Group project | Contribution: pose preparation and classification

- Prepared skeleton representations and landmark CSV datasets with MediaPipe, and implemented augmentation for yoga-pose classification.
- Trained MLP, XGBoost and ensemble classifiers and compared image-based and coordinate-based inputs within the team's stereo-vision project.
- Examined how preprocessing and input representation affect classification and training cost, strengthening my understanding of feature preparation and model comparison.

Multi-Objective Shift Optimisation

Individual project | Python, evolutionary optimisation

- Encoded job-to-worker assignments and applied crossover and mutation to explore staffing schedules.
- Compared candidate schedules using worker count, workload balance and idle-time penalties.
- Produced Pareto plots and schedule visualisations, and identified the need to validate feasibility and reproduce results.

RELEVANT PROFESSIONAL EXPERIENCE

Data Analyst | Hisha Digital Services, Dubai

2023–2024 | Part-time, remote

- Developed Power BI dashboards and DAX measures to present business performance indicators.
- Combined SQL and Excel data, investigated inconsistencies, and cleaned and transformed records for reporting and analysis.
- Organised recurring reporting tasks and communicated with stakeholders to meet reporting deadlines.

Front-End Developer / Data Analyst | Frutiv Tech

2016–2019

- Built responsive client-facing web applications using HTML, CSS and JavaScript, alongside SQL and database tasks.
- Used Power BI for operational reporting and Microsoft Azure within development workflows.

ADDITIONAL EXPERIENCE

Healthcare Assistant | Nurseplus, Plymouth, UK

August 2025–June 2026

Frontline UK healthcare experience informing a developing interest in Health Technology.

FURTHER TECHNICAL PROJECTS

Advanced machine learning: classification and clustering comparisons. E-waste robotics: image preparation and object detection. Computer vision: droplet counting and CNN classification on CIFAR-10. Details: donnetag.vercel.app.