Goodluck Oguzie

Birmingham, UK | +44 7983 954 079 | drgoodluckoguzie@gmail.com
linkedin.com/in/goodluck-oguzie-0387b3157 | github.com/goodluckoguzie

Target Role

AI/ML Engineer (Hybrid Birmingham or Remote-UK) — *Azure-first Python engineer delivering client-facing AI solutions (classification, NLP, CV, recommendation); Docker, CI/CD; stakeholder engagement.*

Profile

Resourceful ML researcher and engineer (Ph.D., Aston University, 2025) with hands-on delivery of AI solutions from discovery to deployment. Skilled in Python and SQL, model development (scikit-learn, PyTorch/TensorFlow), data preparation, experiment tracking (MLflow), and productionising services (FastAPI/Flask, Django ,Docker, CI/CD). Azure-first with AWS familiarity. Strong communicator and mentor; taught web development (React, HTML/CSS) and postgraduate Digital Transformation.

Core Skills

- **Languages/Tools:** Python, SQL, Bash; Git, Jupyter, MLflow, Pandas, NumPy
- **ML/AI:** Classification, regression, clustering, recommendation; model evaluation/validation; feature engineering; PyTorch/Lightning, TensorFlow, scikit-learn; RL (PPO, SAC, DreamerV3); LLM/RAG, LoRA, RLHF
- **Data & MLOps:** Data preprocessing/cleaning, pipelines; Docker; CI/CD (GitHub Actions); monitoring (Prometheus); experiment reproducibility
- **Cloud/Infra:** Azure (AKS/Functions/Storage) — primary; AWS (EC2/S3) — familiarity; Terraform/serverless — exposure; Kubernetes
- **Web:** FastAPI/Flask, APIs, HTML/CSS; *taught React*; familiarity with Vue.js

Experience

Aston University — ARPL Lab Birmingham, UK
Ph.D. Researcher & Research Engineer 2021–2025

- Translated stakeholder requirements into AI prototypes and production-ready services; presented roadmaps to both technical and non-technical audiences.
- Designed, trained, and evaluated models for prediction, control, and perception (PyTorch/TensorFlow; scikit-learn); implemented robust validation, ablations, and error analysis.
- Built data pipelines for preprocessing/feature engineering; tracked experiments and metrics with MLflow; automated CI/CD with GitHub Actions.
- Containerised services with Docker and deployed to cloud (Azure primary; AWS familiarity); monitored with Prometheus; authored runbooks.
- Developed LLM/RAG assistants; fine-tuned GPT-J with LoRA; implemented RLHF for interactive systems.
- Mentored juniors; led code reviews; improved delivery cadence using Agile ceremonies.

QA Higher Education London/Birmingham, UK
Seasonal Lecturer in Computing 2023–Present

- Delivered MSc modules (Deep Learning, Big Data,Digital Transformation) across Ulster, Solent, Roehampton; supervised ML projects from business problem scoping through model deployment.
- Taught **Web Development (React, HTML/CSS)**; reinforced API design, client-server integration, and frontend collaboration patterns.

Crimson Education Birmingham, UK
Lecturer in Computer Science 2020–2024

- Designed assessments and taught programming (Python, OOP), data structures, and foundational CS; emphasised clean code and testing.

Zinox Technologies Lagos, Nigeria
Junior Python Developer 2015–2017

- Built Python applications and automation scripts; collaborated with cross-functional teams; contributed to RESTful service development.

Selected Projects

- **AI Assistant (RAG & LoRA):** Retrieval-augmented QA assistant with GPT-J fine-tuning (LoRA); FastAPI service; Dockerised and deployed to Azure; CI/CD via GitHub Actions.

- **Social Navigation Models:** World-model based and model-free RL (DreamerV3, PPO, SAC) for multi-agent navigation; data preprocessing and evaluation frameworks; simulation in CARLA/SocNavGym; APIs for downstream apps.

Education

Aston University — Ph.D., Computer Science 2021–2025
Thesis: Enhancing Robot Social Navigation with Reinforcement Learning and Advanced Predictive Models: Cosine-Gated-LSTM and Adaptive Predictive Horizons

Sheffield Hallam University — M.Sc., Automation Control & Robotics 2018–2019
Dissertation: Autonomous Robot with Obstacle Avoidance and Navigation

Certification: Udacity — Sensor Fusion (Nanodegree)

Selected Publications

- Oguzie, G., et al. "Advanced Reinforcement Learning for Social Robot Navigation." *Robotics & Autonomous Systems*, 2023.
- Oguzie, G., et al. "Cosine-Gated LSTM for Adaptive Predictive Horizons." *IEEE* , 2024.