

O. ISAAC SALAKO

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PROFILE

Full-stack Data Scientist with 3+ years' expertise in end-to-end model development and deployment. Proficient in Python (pandas, NumPy, scikit-learn), SQL and cloud services (GCP, Azure) for feature engineering, statistical analysis and predictive modeling. I am skilled at training, fine-tuning and evaluating deep learning architectures in TensorFlow and PyTorch, conducting A/B tests, and developing Generative AI assistants for automated technical support.

EDUCATION

Teesside University, Middlesbrough - *MSc Applied Artificial Intelligence with Advanced Practice* (May 2024 - Present)

- Relevant: ML, Deep Learning, NLP, Data Engineering, Responsible/Explainable AI, Cloud & MLOps.

Kwara State University, Nigeria - *B.Eng. Aeronautical and Astronautical Engineering* (Jun 2016 – Nov 2021)

TECHNICAL SKILLS

- **Languages:** Python (pandas, NumPy, scikit-learn), R, SQL (PostgreSQL, MySQL, Amazon Redshift), HTML/CSS
 - **ML & DL:** XGBoost, LightGBM, TensorFlow, PyTorch, Keras; A/B testing; feature engineering & validation
 - **GenAI & NLP:** OpenAI / HF Transformers, BERT; spaCy, NLTK; prompt design; retrieval & evaluation; GANs (VQ-VAE, StyleGAN); DALL·E
 - **Data & MLOps:** Spark, Airflow, Kafka, Flink, Hadoop; MLflow, Azure DevOps, Docker; Databricks, Synapse; Snowflake; ETL; Data Lake/Warehouse design, schema modelling, performance tuning; monitoring & model lifecycle
 - **Cloud:** Azure (ML, Synapse, Data Factory, Databricks, Functions, App Service), **GCP (Vertex AI; APIs on GCP)**, AWS (S3, EC2, SageMaker)
 - **APIs:** Design, development & debugging of RESTful services on **Azure** and **GCP**; production deployment, performance tuning, and observability
 - **Visualisation:** Power BI, Tableau, Plotly/Dash, D3.js, ggplot2; Excel
 - **Assessment prep:** completed Lloyds Banking Group **Data Science & Analytics Job Simulation** (Forage)
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EXPERIENCE

Data Science Intern, NIHR BioResource, Cambridge - (Jun 2025 - Aug 2025)

- Built an interactive **Plotly Dash** sample-tracking dashboard covering **300+** Oxford Nanopore long-read genomic samples/week across pipeline stages, surfacing QC metrics (read length, N50, error rate).
- Extended the **SQLite** schema (3 new metadata/QC tables) and added drill-down filters (by run/date/status/sample ID) to help assistants and bioinformaticians pinpoint bottlenecks in near-real time.

AI Engineer (MSc Advanced Practice), PocketSergeant, Sunderland - (Jan 2025 - Apr 2025)

- Designed generative-AI pipelines to auto-produce tailored victim-statement checklist templates by synthesising legal/procedural data and cut manual prep time by **~30%**.
- Prototyped a scenario-based testing API with **GPT-4o** to create realistic incident narratives.
- Shipped REST APIs on **Azure App Service** supporting **~200** inference requests/day at **~100 ms** median latency and **~99%** uptime; integrated with mobile & web clients.

Data Scientist, Omeife Technologies, Abuja - (Jun 2022 - Apr 2024)

- Optimised text-to-speech inference, cutting latency by **~40%** (500 ms to 300 ms/request).
 - Engineered features on an **800k-record** dataset, improving model accuracy by **7%**.
 - Built end-to-end ML solutions for two UNICCON web apps serving **~1,500** daily users; co-launched ML features and set up continuous model-monitoring workflows.
 - Developed subtitle synchronisation algorithms for **100+ hours** of video, saving **~5 hrs/week** of manual editing.
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CERTIFICATIONS

- IBM: Databases & SQL for Data Science with Python
- ETL Data Pipelines with Shell/Airflow/Kafka; Data Engineering
- DeepLearning.AI: Neural Networks & Deep Learning
- StanfordOnline: Machine Learning.