Othniel Obasi

AI Strategist | ML/LLM Product Architect | NLP & Fraud-Systems Expert

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- **6+ years** delivering ML & LLM products across fintech, SaaS, and utilities.
- Fraud & LLM-safety systems cut loss **25 %**, escalations **30 %**.
- Bridge product, engineering & research to ship scalable, explainable AI.
- Proven record building fraud stacks, XAI pipelines & safety-hardened LLM apps.

:: Key Skills & Tools

Python   FastAPI   PyTorch   scikit-learn   LSTM   Neo4j   OpenTelemetry

SHAP/LIME   RAG   RLHF   Kafka   Pinecone   Docker   GCP   GitHub Actions

Explainable AI   Fraud Detection   LLM Safety   Product Ownership   Business Analysis

Team Collaboration   Road Mapping

📦 Experience

AI Strategist – *Bezaleel Solutions*   2023 – Present
Lead AI system design, LLM safety & observability for mission-critical SaaS.

- **NL→SQL Analyst Agent:** 95 % parsing / 100 % execution; LLM-judge 92 % clarity; OpenTelemetry traces in Arize Phoenix.
- **Billing-bot hardening:** Safety rails blocked 85 % of 50+ red-team attacks; escalations −30 %.

Technical Product Manager – ML – *Creditville MFBank*   2022 – 2023
Drove ML fraud, risk & CX products in a mobile-first finance stack.

- Launched three ML services (fraud, sentiment, auto-loan) delivering double-digit efficiency gains.
- Explainability engine (LIME, DiCE) reduced triage time 40 %.
- NLP insights API (Word2Vec, LDA, BERT) cut manual review 50 %.
- Risk-feature engine lowered loan defaults 20 % and scaled loan disbursements ₦200 m → ₦1 b
- Re-architected banking stack into micro-services, saving US $125 k / yr and ½ release cycle.
- Integrated NIBSS payments rail + KYC-tiered fraud controls → 100 % CBN compliance.
- Exposed 50 + REST endpoints; partner wallets onboarded in < 1 week, transactions ↑ 25 %.

Lead Product & Projects- AI & Analytics – *PHED*   2020 – 2022
Pioneered first AI/ML programmes to modernise grid integrity.

- Real-time energy-fraud model reduced loss 25 %.
- Cloud forecasting (95 % CI) accelerated budgeting by two weeks.
- Python + Power Automate flows cut manual effort 30 %.
- Executive dashboards process 2 M+ records per month.

Senior Business Analyst & Product Owner – *PHED*   2016 – 2020
Led Lean redesign & digital pilots for AI readiness.

- Mapped 80+ processes, lowering incidents 30 %.
- Co-ordinated IoT pilots across 42 units; co-designed PoC dashboards.
- Founded Change-Management committee; trained 200+ staff.

✎ Additional Roles:Part-Time

Founding Technical Lead – AI/ML – *Tech Genius Solutions*

Driving prototype-stage AI infrastructure from fraud detection to   2024 – Present
SaaS-ready deployment across real-time systems.

- Fraud pipeline (Kafka → PyTorch → Neo4j) raised ring-recall 28 %.
- Auto-retraining loops dropped missed fraud 17 %; adaptive MFA cut false positives 35 %.

LLM Training & Evaluation Specialist – *Outlier AI & Invisible Tech*

Executed high-throughput LLM evaluation and   Jan 2024 – Jan 2025 | Remote
RLHF for two San Francisco , US AI firms.

- Flagged 150+ bias / factuality / safety issues.
- Created 300+ RLHF prompt-pairs; win rate up 11 %.

☰ Selected Projects

Fraud Detection via Logic Tensor Networks
Python • PyTorch • LTN • scikit-learn

- Achieved 93.1 % MLP accuracy (5-fold CV); added fuzzy-logic constraints using LTN.
- Final logic-consistency score: 0.94; optimized CPU performance for 500-epoch runs.

LexSynergy AI – Legal Decision System
Legal-BERT • LSTM • Neo4j • SHAP • RAG • FastAPI

- 90 % accuracy in case outcome prediction via hybrid neuro-symbolic model.
- Embedded neural outputs into Neo4j graph with Cypher-based retrieval.
- Applied SHAP/LIME for legal explainability on precedent- and statute-level insights.

Distilled & Quantised ML Service (Digit-Recognition Full Stack)
PyTorch • FastAPI • MLflow • W&B • PostgreSQL • Docker • GCP • GitHub Actions

- Trained, distilled, and quantized a digit classifier achieving 98 % accuracy with < 100 ms inference latency; tracked evaluation metrics with MLflow and W&B.
- Integrated predictions with PostgreSQL for persistent storage and analytics.
- Containerized with Docker, deployed on GCP, and automated CI/CD with GitHub Actions for zero-click updates.

CraftWise Writing Assistant
Streamlit• OpenAI API • Prompt Engineering • UX Design

- Built a hosted LLM writing assistant that rewrites text based on audience, tone, domain, and intent.
- Integrated flexible API-key support: unlimited with user key, session-limited with default key.
- Designed UX for configurable rewriting and real-time feedback.

LLM-Powered Multilingual Order Automation
Pinecone• OpenAI API • Prompt Engineering • Flask • Ngrok • Google Sheet

- Auto-classifies customer emails(Product Inquiry/ Order Request), verifies stock, processes orders
- Smart product recommendation via vector similarity while drafting context-rich replies through RAG

🎓 Education & Certifications

- **M.Sc. Financial Engineering** – WorldQuant University (US)
- **M.Sc. Applied AI & Data Science (Distinction)** – Southampton Solent University (UK)
- Neo4j Certified Professional
- Applied Data Science – Scientific Computing & Python (Honors) – WorldQuant University