Othniel Obasi

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

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- 6+ years of experience delivering ML and LLM solutions across fintech, SaaS, and utility sectors.
- Fraud & safety systems that cut loss by **25 %**+ and escalations by **30 %**.
- Adept at bridging product, engineering, and research with a focus on impact, clarity, and long-term scalability.
- Proven track record in building and deploying fraud detection systems, explainable-AI pipelines, and safety-hardened LLM applications.

Key Skills & Tools

Python FastAPI PyTorch scikit-learn LSTM Neo4j OpenTelemetry

SHAP/LIME/DiCE RAG RLHF Kafka Pinecone Docker GCP

GitHub Actions Data Analysis Explainable AI Fraud Detection LLM Safety

Cross-functional Collaboration Business Analysis Product Ownership

Road Mapping

Experience

AI Strategist – *Bezaleel Solutions*   2023 – Present

Driving AI system design, LLM safety, and observability across mission-critical products.

- **NL→SQL Analyst Agent:** Designed and deployed an autonomous natural-language-to-SQL pipeline with **95 %** parsing accuracy and **100 %** execution success. Integrated an LLM-as-a-judge module (92 % clarity rating) and instrumented OpenTelemetry tracing into Arize Phoenix.
- **SaaS Support Bot Hardening:** Defined multi-tier safety rails for a billing support bot. Blocked **85 %+** of 50+ red-team vectors, maintained **100 %** citation compliance, and reduced human escalations by **30 %**.

Technical Product Manager – ML – *Creditville MFBank*

Led ML-driven product development for fraud, risk, and   2022 – 2023
customer intelligence in a digital finance ecosystem.

- Delivered three ML services—fraud detection, sentiment analytics, and auto-loan decisioning—yielding double-digit efficiency gains.
- Built a modular explainability engine (LIME, DiCE) with visualizations and audit logs, integrated into a FastAPI fraud pipeline, cutting analyst triage time by **40 %**.
- Deployed an NLP insights API using Word2Vec, LDA, and BERT summarization, reducing manual review by **50 %**.
- Designed a risk-feature engine with real-time monitoring, reducing loan defaults by **20 %**.

Lead, AI & Analytics – *PHED (Power Holding Company)*

Pioneered PHED's first AI/ML programs to modernize grid   2020 – 2022
integrity, forecasting, and operational automation.

- Built a real-time energy-fraud model, reducing undetected loss by **25 %**.
- Delivered cloud-based forecasting with **95 %** confidence; accelerated budgeting cycle by two weeks.
- Automated workflows (Python, Power Automate), cutting manual work by **30 %**.
- Built executive dashboards (Excel, Tableau, Power BI) processing **2 M+** records per month.

Senior Business Analyst & Product Owner – *PHED*   2016 – 2020

Orchestrated process redesign and digital transformation pilots to prepare for enterprise AI adoption.

- Mapped **80+** processes via Lean redesign, cutting hand-offs and incidents by **30 %**.
- Coordinated IoT pilots across 42 units; co-designed PoC dashboards with technology partners.
- Founded a Change Management Committee; trained **200+** staff on new tools.

Additional Roles (Part-Time Contracts)

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

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

- Architected a real-time fraud system (Kafka → PyTorch → Neo4j), boosting ring recall by **28 %**.
- Built explainability dashboards with audit-ready outputs.
- Automated retraining loops; reduced missed fraud by **17 %** and enabled future SaaS scaling.
- Integrated adaptive biometric/MFA verifications, cutting false positives by **35 %**.

LLM Training & Evaluation Specialist – *Outlier AI & Invisible Technologies*   Jan 2024 – Jan 2025 | Remote

Executed high-throughput LLM evaluation and RLHF for two San Francisco–based AI firms.

- Evaluated LLM outputs for bias, factuality, and safety; flagged **150+** issues.
- Created **300+** prompt–completion pairs with RLHF feedback, improving win rate by **11 %**.
- Audited model behaviour and applied prompt tuning & data augmentation for safety.

Selected Projects – POC/Research

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 (MNIST, Full Stack)

- *PyTorch • FastAPI • MLflow • W&B • PostgreSQL • Docker • GCP • GitHub Actions*
- Trained, distilled, and quantized a digit classifier achieving **98 %** accuracy with sub-100 ms inference latency; tracked evaluation metrics using 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.

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

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