TAIWO ALABI

AI Systems Engineer | Data Governance & Telecom Analytics

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Stamp 2, available to work 20 hours per week. Critical Skills Employment Permit sponsorship required for full-time work.

PROFILE

Builds verifiable AI systems using Python, SQL, FastAPI, Flask, Docker, PostgreSQL, pgvector, FAISS, RAG, LLM evaluation, scikit-learn, TensorFlow/Keras. Huawei/Globacom telecom production experience includes audit of 100k+ records, validation of 440+ UAT cases, tracking of 30+ operational KPIs, and discovery of 14% reporting discrepancy. MSc Artificial Intelligence, NCI, January 2027. Stamp 2, available to work 20 hours per week. Critical Skills Employment Permit sponsorship required for full-time work. English (native).

SKILLS

Programming Languages: Python, SQL

Databases: PostgreSQL, pgvector, GaussDB, HBase, Hadoop HDFS, Google BigQuery

Visualisation & Reporting: Power BI, Tableau, SSRS

Data Governance & Quality: Data classification, data lineage documentation, GDPR data cataloguing, data quality audits, UAT / controls testing, BPMN process modelling

Telecom & Business Analytics: Subscriber metrics (MAU), operational KPI reporting, CRM analytics, ticket triage automation

Data Engineering & Infrastructure: Python ETL automation, Docker, Kubernetes, FastAPI, Flask, Google Cloud

AI & Machine Learning: RAG pipelines (pgvector, FAISS), LangGraph, LLM evaluation, model evaluation (ROC, calibration), scikit-learn, TensorFlow/Keras, vector search, feature contracts and training-serving skew, blue-green and canary rollout

EXPERIENCE

Data Specialist | Huawei Technologies - Globacom Telecommunications Department, Lagos | March 2025 - December 2025

Progressed from Data Analyst Intern; internship extended by the team.

Data governance & migration

- Supported customer data migration with the solutions architect; classified records by type and sensitivity for auditable migration.
- Designed 440+ UAT cases with the test team, validating migration integrity and data controls before cutover.
- Documented data handling rules and GDPR-aligned data cataloguing for migrated datasets.

Data quality & analytics

- Profiled, cleaned and validated 100k+ user engagement rows in SQL; found and fixed a 14% MAU reporting discrepancy.
- Gathered stakeholder requirements; turned them into governed, reusable datasets and measures.
- Owned Power BI reports, dashboards, workspaces and datasets; added advanced analytics for self-service.

Reporting & automation

- Built SSRS and Tableau dashboards tracking 30+ KPIs across departmental operations.
- Automated daily CRM data extraction in Python; saved ~15 hours of manual reporting weekly.
- Designed database tables from 20+ business requirements; supported rollout of new software systems.

PROJECTS

Customer Care Process Automation - Python, scikit-learn, BPMN 2.0, pandas

- Automated ticket triage for a mobile network's customer care: TF-IDF + Naive Bayes routes complaints to five teams at 95.2% on held-out tickets.
- Designed an escalation gate: tickets scoring under 0.55 confidence route to a human instead. Controls over coverage.
- Mapped the as-is process in BPMN before automating; second bot validates records and writes the daily report. Two manual processes replaced.

Write-up https://iamtamilore.github.io/p/care-agent/ | PDF | BPMN process models | Architecture diagram | Source code https://github.com/iamtamilore/customer-care-automation

Smart Medical Records Engine - FastAPI, PostgreSQL/pgvector, LangGraph, Docker

- Retrieval system over patient notes: surfaces critical history (e.g., prior allergies) in seconds.
- Scoping enforced at schema level: wrong-patient records excluded before ranking, not filtered after. 30 adversarial probes, zero leaks.
- Audit log on every access; PII stripped before inference; on-premise LLM, data never leaves the hospital.

Write-up https://iamtamilore.github.io/p/clinical-rag/ | PDF | Architecture diagram | Data model | Source code https://github.com/iamtamilore/agentic_rag_fastapi

TermsGuard AI - Sentence Transformers, FAISS, Claude API, Flask

- Flags risky clauses in privacy policies, grounded in a 102-clause reference set (52 fair, 50 unfair).
- Retrieval index carries 4,527 chunks of context on data governance and GDPR; up to 15 flagged clauses go to Claude for verification per analysis.

Live demo | Write-up https://iamtamilore.github.io/p/termsguard/ | PDF | Source code https://github.com/iamtamilore/terms-guard-ai

Additional project - Automated QA Gate for AI-Generated Imagery (TensorFlow/Keras, ResNet50): similarity gate blocking non-compliant AI product imagery - precision 1.00 on sealed test pairs.

Write-up https://iamtamilore.github.io/p/image-qa/ | PDF | ROC curve and confusion matrix | Architecture diagram | Source code https://github.com/iamtamilore/campaign-image-qa

EDUCATION

MSc Artificial Intelligence - National College of Ireland, Dublin January 2026 - January 2027

- Focus: AI evaluation and critique - evaluation design, deployment patterns, sliced evaluation, confidence calibration.

BSc Computer Science (2.1) - Afe Babalola University, Lagos September 2021 - February 2025

INTERESTS & ACHIEVEMENTS

- Filmmaking & Photography Club, NCI - shoot planning, editing, event photography.