GLORY SIMON

Applied AI Scientist

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GitHub: https://github.com/Glory995?tab=repositories

PROFESSIONAL SUMMARY

Applied AI Scientist with 3+ years of hands-on experience designing and deploying production-grade AI/ML systems, specializing in retrieval-augmented generation (RAG), LLM orchestration, and evaluation frameworks. Proven track record of building robust ingestion pipelines, optimizing vector databases, and implementing custom steering mechanisms that balance performance with safety. Passionate about responsible AI deployment in high-stakes domains where accuracy and transparency are important

CORE COMPETENCIES

AI/ML Systems: RAG Architecture • LLM Orchestration • Prompt Engineering • Evaluation Frameworks • Hallucination Detection
Vector & Retrieval: Embedding Models (OpenAI) • Vector DBs (Pinecone, Chroma) • Chunking Strategies • Reranking • Query Transformation
Technical Stack: Python (Advanced) • LangChain • LlamaIndex • FastAPI • PyTorch • Hugging Face • Docker • Git
Data & MLOps: Data Pipelines • Model Monitoring • A/B Testing • CI/CD for ML • Experiment Tracking (W&B, MLflow • AWS and Azure
Soft Skills: Communication Skills, Teamwork, Leadership, and Diligence

PROFESSIONAL EXPERIENCE

AI Engineer | Uniccon Group of Companies | Abuja, Nigeria

January 2022 – August 2025

Built production RAG system (MySmartMedicare) serving 30k doctors and patients with 94% answer accuracy

- Architected end-to-end retrieval pipeline including custom chunking strategies (semantic, hierarchical) that improved context relevance by 40%
- Designed and implemented a multi-stage evaluation framework measuring grounding accuracy, pedagogical alignment, and hallucination rates using LLM-as-judge methodology
- Optimized vector database performance through hybrid search (dense + sparse), achieving 3x faster query times while maintaining 98% recall
- Developed a custom reranking layer using cross-encoders that reduced irrelevant retrievals by 35%
- Created automated hallucination detection system using consistency checks and source attribution, reducing ungrounded responses by 67%
- Collaborated with doctors to define evaluation metrics aligned with expected outcomes

Machine Learning Engineer | National Space Research and Development Agency | Abuja, Nigeria
March 2021 – December 2021

Disaster Early-Warning ML System

- Designed an end-to-end spatiotemporal ML pipeline combining NDVI, soil moisture, rainfall, and land-surface temperature data from Sentinel-2 and ERA5 datasets.
- Engineered temporal feature extraction and lag-based representations that improved predictive performance by **31%** over static baselines.
- Trained gradient-boosted and LSTM models for regional risk forecasting, achieving **0.87 ROC-AUC** on held-out geospatial regions
- Implemented automated data quality checks and anomaly detection for missing or corrupted satellite observations

- Deployed the inference pipeline as a REST API enabling real-time risk scoring for disaster response teams

PERSONAL PROJECTS

AI-Powered Recruitment Platform| https://github.com/Glory995/SmartHire-AI-Powered-Recruitment-Platform
- Developed LangChain-based CV screening system with ChromaDB semantic search and 0-100 AI scoring
- Built async FastAPI microservices with Celery task queues and PostgreSQL, deployed via Docker Compose
- Automated document parsing, background checks, email workflows, and Zoom interview scheduling

AI Customer Support | [https://github.com/Glory995/Glory995AI-Customer-Representative]
- Developed an intelligent chatbot using LangChain/OpenAI and DeepSeek with RAG pipeline for accurate query resolution and context-aware responses
- Built scalable backend with FastAPI and Redis caching, integrated with Zendesk for seamless ticket management
- Implemented NLP-based intent classification, automated response generation, and real-time sentiment analysis to improve customer satisfaction

And many more on my GitHub : https://github.com/Glory995?tab=repositories

EDUCATION

M.Sc. in AI Data Science and Machine Learning | Halmstad University, Högskolan, Sweden |
September 2025 till present

B.Sc. in Computer Science | Federal University Lokoja, Kogi State , Nigeria | September 2018- December 2022
Thesis: "Forged Image Detection Using Deep Learning "
Final grade: 4.73/5.00 (First Class Hons)

ADDITIONAL QUALIFICATIONS
- **Languages**: English (Fluent), Swedish (Beginner)
- **Certifications**: Deep Learning specialization || Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization
- **Speaking**: Presented at ConnectHer on "Building Reliable RAG Systems"
- **Community**: HighFive || Women in DataScience and Machine Learning || SI Pioneering Women in Stem || SI Network for global Professional