DESTINY OTTO

AI and Machine Learning Engineer

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Lagos, Nigeria

EXPERIENCE

AI Engineer

AideMeet

03/2026 - Present Ukraine, Remote

- Built AideMeet's GraphRAG-powered intelligence layer as a persistent meeting-memory system, using Pinecone and ChromaDB to turn transcripts from sales, HR, onboarding, support, and 1:1 meetings into long-term relational context, grounded Q&A, action items, follow-ups, and evolving contact memory to successfully complete pilot stage.
- Engineered a LangGraph-orchestrated multi-agent AI workflow in which specialized agents collaborated across summarization, memory persistence, action extraction, retrieval, and grounded response generation to power end-to-end meeting intelligence.
- Led rigorous AI benchmarking across GPT-4o, Llama 3, Phi-3, text-embedding-3-small, all-MiniLM-L6-v2, and all-mpnet-base-v2, driving architecture decisions with real evaluation on faithfulness, schema validity, latency, WER, and retrieval quality.
- Deployed Llama 3 and Phi-3 on Oracle Cloud VM through Ollama and llama.cpp, proving out local-model serving for memory and meeting-intelligence workflows while making sharp production calls on what was ready to ship and what was not.

Machine Learning Engineer

Pingtop

12/2025 - 03/2026 London, Remote

- Architected and built a hybrid creator recommendation system that drove a 120% growth in follow engagement. The engine integrated three core models including Matrix Factorization, Graph Neural Networks, and content-based recommendation, backed by a Neo4j database mapping 1.4M+ user nodes and over 10M+ relationship edges, Qdrant vector embeddings, and a LightGBM ranking system.
- Scaled an end-to-end AI video moderation pipeline leveraging Google Vertex AI, Pub/Sub, and Compute Engine VMs. The system processes 25,000+ short-form videos daily, significantly reducing manual review bottlenecks and accelerating automated safety throughput.
- Engineered a low-latency video classification system by fine-tuning stacked Vision Transformers (ViT). Implemented dynamic confidence thresholds using Logistic Regression and SVMs to detect policy-violating visual content with 89% precision.
- Deployed fine-tuned open-source small language models via Amazon Elastic Kubernetes Service pods to automate the moderation of 70,000+ daily comments. Integrated Amazon SQS for resilient message queuing, filtering toxicity and spam to protect the creator community.
- Architected and fine-tuned a dual-model image moderation system for profile photos, processing 15,000+ uploads daily. Designed and implemented the ensemble logic between two transformer-based vision models to strictly block policy-violating content while significantly reducing false positives.

Machine Learning Engineer

RightClick IT Solutions

08/2024 - 03/2025 Abuja, Nigeria

- Built and deployed an enterprise Retrieval-Augmented Generation (RAG) system to automate intelligence and decision-making from 22,000+ unstructured technical files.
- Engineered the core data pipeline, generating embeddings using Gemini API and utilizing Chroma DB for efficient, low-latency document retrieval.
- Architected a unified robust file parser and OCR pipeline capable of handling 15+ heterogeneous formats such as legacy files, scanned PDFs, handwritten/typewritten reports, XML, Office documents, binary artifacts, ZIP packages, maps, and engineering drawings, transforming degraded and structurally complex inputs into searchable, machine-usable data.
- Deployed the solution as a scalable microservice on AWS EC2 using Docker, integrating FastAPI with Celery and Redis for high-volume, asynchronous data ingestion.
- Leveraged LangChain and Gemini to extract entities and summarize complex multi-modal files, reducing manual document review time by 92%.

SUMMARY

Innovative Machine Learning Engineer with 4+ years specializing in the end-to-end development of scalable AI infrastructure and advanced predictive analytics. Track record of engineering systems that conquer massive scale, from multi-million node graph networks to high-velocity RAG systems and real-time computer vision pipelines. Proficient in applied deep learning and MLOps, with experience fine-tuning open-source LLMs and automating complex, data-heavy workflows. A strategic technical leader who excels at bridging the gap between complex deep learning architectures and executive-level decision-making to secure stakeholder buy-in and drive operational excellence.

SKILLS

Python | PostgreSQL | PyTorch | ETL/ELT | NoSQL(MongoDB) | Neo4j | Git | FastAPI | Docker | Kubernetes | MLOps | LLMs | RAG | LangChain | Machine Learning

CERTIFICATIONS

AI Lab: Deep Learning for Computer Vision
World Quant University | Certificate Link

Data Engineer Certification
DataCamp | Certificate Link

Machine Learning with PySpark
DataCamp | Certificate Link

EDUCATION

M.Sc. Artificial Intelligence (in view) 2026
Woolf University
Online, Malta

B.Eng. in Petroleum Engineering 2021
University of Port Harcourt
Port Harcourt, Nigeria

PROJECTS

code-brief AI (Nebius Academy, London)

03/2026 - 03/2026

- Developed an open-source Intelligent repository summarization API with ranked file selection, context budgeting, and structured LLM output. It generates concise, human-readable summaries of codebases using a combination of static analysis and LLM-powered summarization. Successfully Passed the Nebius Academy project assessment Link

EXPERIENCE

Applied Machine Learning Scientist

Edvantage Learning Solutions

07/2022 - 07/2024 India, Remote

- Consulted enterprise clients to translate complex operational problems into data-driven ML workflows; architected and built interactive Streamlit dashboards as Proof-of-Concepts (PoCs) to demonstrate business value.
- Prototyped fault detection models using Isolation Forest and Random Forests on high-frequency IoT data. The prototype achieved 92% accuracy in classifying failure modes, demonstrating a 30% lift over existing heuristic models and securing stakeholder buy-in.
- Designed and demonstrated hybrid Physics-Informed Machine Learning (PIML) models, integrating Neural Networks with custom loss functions to enforce physical constraints. The solution reduced prediction error by 40% in data-sparse environments compared to purely data-driven models.
- Authored and delivered advanced corporate training on Applied Machine Learning, Analytics, and Automation workflows for 200+ engineering professionals.

Data Scientist

Heritage Energy Operational Services

02/2022 - 07/2022 Lagos, Nigeria

- Spearheaded an AI/ML predictive platform utilizing Neural Networks and domain-specific feature engineering to optimize asset selection. The system improved target identification accuracy by 25% over traditional heuristic methods and significantly reduced manual data screening.
- Empowered cross-functional teams with real-time analytics by developing automated Power BI dashboards that monitored daily operational KPIs across 200+ high-value assets.

PROJECTS

Eagle Blend Predictor (Shell.ai Global Hackathon 2025)

06/2025 - 08/2025

- Placed in the Top 5 out of 3,300+ participants by developing a Transformer-based tabular predictor integrated with a Multi-Objective Optimization engine to solve a complex fuel-blending problem. **Link**

LANGUAGES

- English (Native)