

Destiny Otto

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AI Engineer | Software Developer | Automation Specialist

Highly motivated Engineer with proven experience in designing, developing, and deploying AI/ML solutions and automating complex workflows to enhance operational efficiency. Skilled in leveraging LLMs, APIs, Python, and data analysis techniques to build intelligent systems, streamline processes, and extract actionable insights. Adept at systems thinking, identifying bottlenecks, and implementing scalable automation solutions. Seeking an AI Engineer role to apply expertise in AI agent development, workflow automation, and process optimization within a dynamic, high-growth environment.

Core Competencies

- **AI & LLMs:** OpenAI API, Gemini API, LangChain, RAG, MCPs, Custom AI agents, Tokenization, Embeddings, Vector databases, NER, Summarization, Prompt engineering, Transformers, Computer Vision.
 - **Automation:** Robotic Process Automation, Workflow Automation, No-code app integration, Browser automation, HTML parsing, Web scraping, Test automation, UI testing.
 - **Programming & Scripting:** OOP, Shell Scripting, Debugging, Refactoring, Scientific Computing, Automation Scripting, File Manipulation, I/O, Development, API integration, GUI.
 - **Cloud & DevOps:** Deployment, CI/CD pipelines, Containerization, Container Orchestration, Serverless computing, Object Storage, Version Control, Cloud Security, PaaS.
 - **Data Engineering:** ETL pipelines, OCR, Regex, SQL, NoSQL & Relational databases.
 - **ML & Data Science:** Linear Algebra, Statistical modelling, A/B Testing, Data Cleaning & Preparation, Feature Engineering, Classical ML Algorithms, Regression, Classification, Clustering, Neural Networks, Time Series Forecast, CNN, LSTM, RNN, Transformers, GANs, VAE, Transfer Learning, Data Visualization, Reporting and Dashboards, Experiment Tracking, Model Deployment.
 - **Software Development:** Frontend Development, REST API, MCP, Authorization & Authentication, Unit tests, Integration tests, Asynchronous development, Caching, Version control, Package management, ORM, Databases, Logging, monitoring & error tracking, Web sockets.
 - **Soft Skills:** Systems thinking, Process mapping, Documentation, Technical leadership, Proactive Initiative, Technical training, Team collaboration, Presentation
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Professional Experience

Machine Learning Engineer • RightClick Solutions (Contract)

Abuja, Nigeria | Aug 2024 – May 2025

- Spearheaded the development of **PetrodocAI**, an AI-powered document processing system for NNPC/Antan Producing Limited, automating the categorization and analysis of 22,000+ technical files.
- Engineered an automated ingestion and classification pipeline using **LangChain, RAG, and Gemini 2.0**, categorizing documents (e.g., well reports, logs) and extracting key metadata, significantly improving data accessibility.
- Implemented **Google Cloud Vision API** for OCR on scanned documents (85% accuracy) and performed advanced data cleaning, standardizing data across 15+ formats (98% consistency).
- Developed an automated report summarization feature using **OpenAI API and Gemini 2.0**, extracting critical subsurface insights and reducing document review time by 95%.
- Built a versatile **Python-based Technical File Parser** supporting 15+ oilfield formats (SEG-Y, LAS, PDF, legacy files like PPT, XLS, DOC etc.), enabling efficient parameter extraction from 22,000+ documents within 2 weeks.
- Designed and developed the **NNPC/Antan Smart Data Management System** from the ground up, providing secure, scalable storage and enabling efficient search, navigation, and preview of technical reports.
- Architected and executed a **Python-based automation pipeline** that transferred over **22,000+ files** from SharePoint to **AWS S3** in 48 hours, leveraging the **Google Drive API** to overcome permission and throttling constraints. Employed multi-threading and staged batching to ensure reliable, high-throughput transfer.

Systems Analyst • Heritage Energy Operational Services (Contract)

Lagos, Nigeria | Feb 2022 – Jul 2022

- Developed and deployed the **Automated Workflow for Workover Candidate Selection (AWWCS)**, an AI/ML system using Python and neural networks to optimize well intervention decisions.
- Engineered a multi-layered ML pipeline analyzing well performance data and reservoir characteristics, improving workover candidate identification accuracy by 25% over traditional methods.
- Automated the analysis of 200+ well logs and production histories, drastically reducing manual screening time and enabling prioritization of high-impact workovers.
- Implemented **predictive analytics using LSTMs** to forecast oil production decline curves with 90% accuracy, informing field development strategies.
- Designed and deployed **Power BI dashboards** to monitor daily production KPIs for 200+ oil wells across 8 oilfields, enhancing operational visibility and decision-making.

- Set up a **real-time automated analytics pipeline** that streams data directly from **SharePoint to Power BI**, enabling live dashboard updates and eliminating manual refreshes.
- Automated a high-complexity Excel-based workflow using **VBA**, reducing a **10-day manual task to under 4 hours**—a **98% time efficiency gain**.
- Authored high-impact reports on performance trends and anomalies for senior stakeholders.

Technical Consultant (Data & AI) • Edvantage Global
India (Remote) | Jul 2022 – Dec 2024

- Developed and delivered commercial training programs on data analytics (Power BI, Tableau, Spotfire, SQL), **Python programming**, and **automation workflows** for 200+ experienced oil and gas professionals.
- Created and taught specialized courses on drilling analytics, production performance analytics, and **machine learning applications** in the energy sector.
- Provided coaching to help professionals adopt data-centric approaches, improving operational efficiency within their organizations.

Founder & Technical Lead • TechPet Global
Port Harcourt, Nigeria | Jul 2021 – Feb 2022

- Founded TechPet Global and led the development of **Appera**, an AI-powered workflow orchestration platform designed to visualize and automate complex project pipelines.
- Led a **cross-functional team of 12** in the design and development of core features.
- Implemented AI-driven automation to streamline data flows between simulation tools and analysis steps, enhancing efficiency in technical workflows.
- Designed a user-friendly interface to simplify complex file management, version tracking, and task execution across different software ecosystems.
- Developed microservices in Python/JS to automate simulation input generation and result aggregation; reduced manual modeling tasks by 80%.

Tech Stack

Category	Skills & Tools
AI & LLMs	OpenAI API, Gemini API, Chroma DB, FAISS, SpaCy, BERT, Word2Vec, NLTK, LangChain, Embeddings, Llama, HuggingFace, Google Gen-AI, Vertex AI.
Automation Platforms	UIPath, Zapier, n8n, Selenium, BeautifulSoup, Pytest, Schedule, PyAutoGUI

Programming	Python, Matlab, VBA, JavaScript, SQL, Bash, Git and Github
Web & APIs	FastAPI, Flask, Django, RESTful APIs, Dash
Cloud & DevOps	AWS (Lambda, S3), Azure Functions, Docker, CI/CD (GitHub Actions), Google Drive API, Vertex AI, Kubernetes, Heroku
Data & ML	Numpy, Pandas, Scikit-learn, Scipy, Statsmodel, XgBoost, Matplotlib, Seaborn, Plotly, TensorFlow, Keras, PyTorch, PowerBI, Tableau, Spotfire, Streamlit, MLFlow, Weights & Biases, Jupyter Notebook, VScode, OpenCV, Pillow, HuggingFace Transformers.
Project Mgt	Slack, JIRA, Teams, ClickUp

Education

B.Eng. in Petroleum Engineering

University of Port Harcourt, Nigeria | Jan 2023

Courses & Bootcamps

- Applied Data Science Lab (WorldQuant University)
 - AWS Machine Learning Fundamentals (Udacity)
 - Engineering Project Management(Coursera)
 - Full Stack Developer Nanodegree (Udacity)
 - Robotic Process Automation (Udemy)
 - Data Scientist Nanodegree (Udacity)
 - Machine Learning Engineer Nanodegree (Udacity)
 - Applied DeepLearning for Computer Vision Lab (WorldQuant University)
 - Deep Learning Nanodegree Program (Udacity)
 - Machine Learning DevOps Nanodegree (Udacity)
 - Generative AI Nanodegree (Udacity)
 - LLM Course (HuggingFace)
 - Data Analyst in PowerBI (DataCamp)
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Additional Information

- **Time Zone:** Flexible.

- **Languages:** English (native)
- **Memberships:** International Association of Engineers; Society of Petroleum Engineers (transitioned focus to AI)