Adetunji Philip
Data Scientist & Machine Learning Engineer

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Profile

Highly motivated Data Scientist with 5+ years of experience, specializing in machine learning and Data Science**,** Machine Learning Engineering (ML), and computer vision. I leverage my cloud technologies and Python expertise for machine learning to deliver innovative solutions and drive tangible business results. My proven track record demonstrates success in translating complex business challenges into actionable data-driven insights, fostering collaboration across cross-functional teams. Adept at both technical communication and translating complex concepts for non-technical stakeholders. I am passionate about staying at the forefront of the field, continuously exploring new technologies (Power BI, Tableau, SQL, etc.) and ML practices (MLflow, TensorFlow, NumPy) etc. to ensure a competitive edge.

Skills

Python | Machine Learning | Deep Learning | Computer Vision | JAX | TensorFlow | NumPy | pytest PyTorch | NLP | Scikit Learn | MLOPs (MLFlow, FastAPI) Machine Learning with GCP | Generative Al (OpenAl, LLM) Tableau | R | PostgreSQL | SQL | AWS | Power BI | Docker | Chatbot | AI Agent |

Professional Experience

2022/07 – present **Data Scientist / Machine Learning Engineer (Team Lead)** Abuja, Nigeria
UNICCON Group

- Developed and migrated an LSTM-based stock prediction model from TensorFlow to JAX for faster convergence and loop control
- Built, trained, and evaluated ML models for computer vision tasks including object detection, image classification, image segmentation, and underwater species detection
- Developed AI agents powered by large language models (LLMs) with integrated strategic decision-making, dialogue management, and multi-agent collaboration
- Built a Telemedicine Chatbot using open-source models and APIs, customized for various medical specialties
- Fine-tuned deep learning models for speech recognition, translation, intent recognition, text summarization, and chatbot development
- Designed natural language interfaces and recommendation systems optimized using prompt engineering (CoT, ToT) and fine-tuning (LoRA, RLHF)

- Developed and deployed machine learning models for regression analysis, classification, clustering, image classification, and signal classification
- Built modular benchmarking pipelines to compare ML framework performance (JAX, TensorFlow, PyTorch)
- Containerized the chatbot application using Docker for scalable deployment
- Designed automated ML workflows with real-time monitoring, performance tracking, and task execution
- Leveraged AWS and GCP cloud platforms to deploy and scale ML applications
- Utilized web scraping techniques to collect multilingual data for NLP model training
- Conducted applied ML research to address limitations in existing models and improve performance
- Prepared, cleaned, and labeled high-quality datasets for ML training using tools like Roboflow
- Collaborated with cross-functional teams including developers, sales, and technical experts to deliver end-to-end AI solutions
- Participated in R&D projects focused on building cutting-edge AI products and services
- Delivered presentations and reports to clients, translating technical progress into business insight
- Strong grasp of Python, TensorFlow, PyTorch, JAX, NumPy, Pandas, and OpenCV
- Experienced in training and deploying deep learning models such as CNNs, RNNs, and Transformers
- Skilled in computer vision, pattern recognition, and edge AI optimization

2021/09 – 2022/07 **Data Scientist (Mid-level)** Abuja, Nigeria
Datalab Technology

- Developed a deep convolutional neural network (DCNN) initially trained in TensorFlow and migrated the model to JAX for faster inference on GPU clusters.
- Developed and deployed machine learning models using various algorithms for diverse applications (regression, classification, clustering).
- Participated in AI product and service R&D, contributing to the creation of cutting-edge solutions.
- Performed in-depth data analysis and interpretation for clients, generating reports using data visualization tools (Power BI, Tableau, Excel).
- Built predictive machine learning models to solve real-life problems, including utilizing logistic regression for operational efficiency improvement.
- Facilitated data science and data analysis training, covering programming languages (R & Python) and visualization tools (Power BI, Tableau, Excel).
- Collaborated effectively on client AI and data science projects, ensuring

successful outcomes.
- Communicated technical concepts clearly to non-technical audiences.
- Established strong client relationships through exceptional communication and collaboration skills.
- Leveraged expertise to achieve performance goals, demonstrating continuous learning and improvement.

Certificate

LangChain Chat with Your Data by DeepLearning.AI

Applied Data Science Capstone by IBM

Python for Data Science, AI & Development by IBM

Introduction to Docker by Datacamp

Machine learning Specialization by deeplearning.AI

Deep learning Specilizationby deeplearning.AI (INVIEW)

MLops Specialization by by deeplearning.AI

AWS Certified Machine Learning Engineer (INVIEW)

Education

12/2019 **Bachelor of Science: Computer Science FEDERAL UNIVERSITY LOKOJA** -
Lokoja, Kogi State
Graduated with second-class upper Honors.

Other Experience

- ➢ Natural Language Processing Pipeline Optimization: Converted a BERT-based intent recognition model from TensorFlow to JAX for real-time chatbot response optimization, ensuring output parity through extensive benchmarking and cosine similarity checks (Tools: TensorFlow, JAX, HuggingFace Transformers, Flax, MLflow, Weights & Biases)
- ➢ Object Detection, Image Classification, Image Segmentation, Deep Convolutional Neural Networks (Dcnns) With Attention Mechanisms
- ➢ Intent Recognition Using Nigeria Pidgin English
- ➢ Attendance Face recognition
- ➢ Data cleaning and Exploration with the use of machine learning Models to predict and forecast
- ➢ Face Mask Detection Using Keras
- ➢ Telemedicine chatbot
- ➢ Speech synthesis, Recognition and translation system in different language
- ➢ Underwater fish detection and real time recognition using YOLO.
- ➢ DCNN-Based Underwater Species Classifier: Developed a deep convolutional neural network (DCNN) initially trained in TensorFlow and migrated the model to JAX for faster inference on GPU clusters (Tools: **TensorFlow, JAX, Flax, NumPy, OpenCV, Roboflow**)