JOSHUA SALAKO

✉ salakojoshua1234@gmail.com 📞 +2349052959263 📍 Lagos, Nigeria in X ○

Highly accomplished and meticulous AI and software developer with 5+ years of experience in crafting scalable, efficient, and innovative solutions that propel business growth, amplify user engagement and drive technological advancements. Passionate about harnessing the power of technology to improve lives, foster collaborative digital ecosystems, and push the boundaries of innovation, with expertise in AI/ML (TensorFlow, PyTorch, Keras), software development (Python, Dart), and agile methodologies.

🧠 SKILLS AND TECHNOLOGIES

Machine Learning & Data Science
- ML Frameworks: TensorFlow, PyTorch, Scikit-learn, OpenCV
- Data analysis & visualization: Pandas, NumPy, Matplotlib
- Deep learning expertise: CNNs, RNNs, GANs, RL, Transformers
- ETL, data preprocessing & feature engineering
- Supervised/unsupervised learning, Natural language processing (NLP) & Computer Vision
- Prompt Engineering
- Cloud: Amazon SageMaker, Azure, Google Cloud AI Platform

Version Control
- Git & GitHub

Soft Skills
- Strong team player with excellent communication and interpersonal skills
- Problem-solver with the ability to prioritize tasks and manage multiple projects
- Able to pay attention to detail, organize codes with proper documentation

💼 PROFESSIONAL EXPERIENCE

AI Researcher
ADA Global Concept ⧉

Aug 2023 – Nov 2023
Nigeria

- Co-authored a peer-reviewed research paper on deep learning methodologies, published in a reputable journal, demonstrating expertise in machine learning research and collaboration.
- Designed, implemented, and evaluated multiple deep learning models using TensorFlow and PyTorch, achieving state-of-the-art performance on the Nigerian Catfish Dataset.
- Conducted comprehensive literature reviews, identifying knowledge gaps and contributing novel insights to machine learning, with findings presented as a poster at DSN AI BootCamp 2024 and published in Agris Online Journal.

Data Analyst
Techtrend Africa ↗

May 2022 – Aug 2022
Nigeria

- Designed and deployed a scalable recommender system using Python, Scikit-learn, and collaborative filtering, achieving a 15% improvement in recommendation accuracy and a 20% increase in user engagement.
- Developed and implemented a time-series forecasting model utilizing ARIMA, enhancing demand planning accuracy by 25%, reducing inventory costs by 12%, and improving supply chain efficiency.

Training Facilitator
DSNai ↗

Apr 2022 – May 2022
Abeokuta, Nigeria

- Facilitated AI Invasion 2022, a free AI training class, mentoring over 150 students on the basics of Artificial Intelligence and practical applications

🎓 EDUCATION

Federal University of Agriculture, Abeokuta
Electrical and Electronics Engineering

2019 – 2024
Nigeria

DSN AI Bootcamp

2024
Lagos, Nigeria

- Gained hands-on experience with deep learning frameworks
- Presented a poster

📁 PROJECTS

CLI Image Classifier Application ↗
Computer Vision

- Trained a deep neural network on a user-defined dataset of images, saving the model as a checkpoint for future use
- Deployed the model to make real-time inferences on image classes

English to Yoruba Machine Translator ↗
Natural Language Processing (NLP)

- Fine-tuned a Multilingual Transformer Model (MT5) for English-to-Yoruba Neural Machine Translation, achieving a BLEU score of 12 on the Menyo-20k_MT dataset.
- Implemented Data Preprocessing Techniques including text normalization and sentence filtering, showcasing an understanding of data quality's impact on model performance.
- Developed Custom Dataset and Dataloader Classes using PyTorch to handle sequence-to-sequence translation data efficiently.

AI-Generated Image Detector ↗
Computer Vision

- Developed a computer vision model to differentiate between AI-generated and real human-created images

Currency Foreign Exchange Rate Prediction ↗
Time Series & Data Analysis

- Web-based application that uses ARIMA and Prophet model to forecast foreign exchange rates

Nollywood Movie Recommender System ⬈
Machine Learning
- Developed and deployed a recommendation model that provides personalized movie suggestions

📚 INDEPENDENT COURSEWORK

Deep Learning Specialization ⬈
Coursera

AI Programming with Python Nanodegree ⬈
Udacity

Data Scientist with Python Track ⬈
Datacamp

ML Fundamentals with Python Track ⬈
Datacamp

Machine Learning Fundamentals
Udacity

AWS ML Foundations
Udacity

🖼 PUBLICATIONS

Fish-NET: Advancing Aquaculture Management through AI-Enhanced Fish Monitoring and Tracking ⬈   Sep 2024
AGRIS on-line Papers in Economics and Informatics

🏅 AWARDS

Google Solution Challenge   2023
Google
- Awarded a Certificate for submitting a solution in the 2022 Solution Challenge hosted by Google Developer Student Clubs.

AWS AI & ML Scholarship Program   2022
Amazon
- Received a scholarship for the Udacity AI Programming with Python Nanodegree program (a $4,000 value)