Machine Learning Engineer

Olaonipekun Oluwatosin Olanrewaju

ooolaonipekun@gmail.com | +2348124593805 | Linkedin | GitHub

SKILLS

ML Stack: TensorFlow, Keras, Detecton2, Pytorch, Scikit-learn, Pandas, Apache Spark
Cloud Stack: AWS, Azure, EC2, ECR, ECS, S3, CloudFront, Airflow, Kubeflow, Argo Worflow, Argo CD, Terraform & EKS
Backend Stack: Django, Flask, Fastapi, SQL, PostGreSQL
Programming Languages: Python, Kotlin, Java
Tools: Jenkins, Docker, Kubernetes**,** Android studio, Jupyter-notebook, Visual-studio code, google-colab, Aws-sagemaker

Education

Lagos State University - Graduate
BS Physics

PROFESSIONAL EXPERIENCE

Intutivo - Contract (4 month)   **Feb 2022 - June 2022**
Machine Learning Engineer
- Developing AI algorithms based on deep learning
- Building products using image analysis techniques (e.g., with OpenCV)
- Building and deploying production-ready deep learning models, including model serving and monitoring
- Adopting best practices around the development process, e.g. test-driven development, code reviews
- Working with software engineers, data scientists, and medical doctors at Qritive to design and develop next generation of Qritive's AI-powered products using the latest software engineering and computer vision technologies
- Working on AI R&D and MLOps tasks assigned to you
- Working on medical image analysis and analyzing whole slide images
- Setting up MLOps pipelines, e.g. with MLFlow
- Participating in activities such as interviews to scale up the team at Qritive

Anheuser-Busch InBev - Full-Time   **Nov 2020 - Feb 2022**
Machine Learning Engineer
- Designed and Implemented an AutoLabeling tools for continuous data annotation
- Built and Deployed Image recognition system to production to identify and count key SKU products (bottles) in the chillers.
- Increased Volume Uplift of key SKU products in Nigeria, Peru, Tanzania, Uganda and Mozambique.

- Lead the AI team to build and Implement an AI smart camera to monitor for empty shelves and product count. Currently installed in Shop rite and SPAR stores across Lagos.

IDPassMe - Self-Employed   Mar 2021 - Aug 2021
Founder and Machine Learning Engineer
- Designed and Implemented the high level verification system
- Deployed Facial Recognition model to production
- Created API endpoint for AI model
- Maintained and monitored Linux servers, EC2 Instances and K8s environments
  IDMePass

MANI - Self-Employed   Jul 2019 - Aug 2021
Founder & Machine Learning Engineer
- Collected and Annotated Image data
- Trained and Deployed an Object Detection model for the Naira Currency
- Designed and Built the android application

Softcom Limited - Internship   Mar 2020 - Nov 2020
Machine Learning Software Engineer
- Implemented KYC for biometric capture for Identity app
- Built and Implemented a Face verification and Liveness checks for Koya app assessment
- Worked with modern Android architecturals.

FreeLance   Jul 2018 - Jan 2020
Software Engineer(Machine Learning)
- Collaborated with Dermatologists from LASCOM to build an AI system to detect Skin disease - I was the Lead AI Engineer. This project was funded by the Lagos state govt.
- **Image Segmentation**: A contract project to train a segmentation model using Mask-R CNN. Gather the dataset and annotate to train and achieve a test accuracy of 87% currently the best accuracy so far for the dataset.
- **Facial Recognition system**: Develop a Facial Recognition system used in registration of staff workers for a company.
- **Sign Language Learning Project:** Collaborated with Young entrepreneurs to build an MVP to blend the Sign Language with gesture recognition in a didactic way to apply to one of the biggest investment funds.

PROJECTS

ChekClaims - Sep 2021
Software Engineer(Machine Learning)
- Designed and Implemented the high level verification system
- Data collection and Processing
- Created API endpoint for AI model
- Maintained and monitored Linux servers, EC2 Instances and K8s environments

- The API documentation:
  https://docs.chekclaims.com/
- WebApp
  http://demo.chekclaims.com:8501/
- Demo Video
  Check Claims-video

Poultry Eye - Dec 2021
Computer vision Engineer
Revolutionising Chicken Farming with AI and Computer vision. I have been working on idea to monitor the:
- Number of Chickens.
- Their weights and dead Chickens.
- Give Visual Alerts.
- No more loss.
- Experimentation Demo video folder
  PoultryEye

AI Smart Fridge - Dec 2021
Computer vision Engineer
The idea is that the cameras can scan what's inside and let users know what items they're short on, even making meal suggestions based on the ingredients they still have.
- Hardware Component
  Raspberry pi 4 (4gb ram, 16gb sd card, Debian OS)
- Collected and annotated image data.
- Trained an Object Detection model.
- Experimentation Demo video folder
  AICook

AI LiveShop - Dec 2021
Computer vision Engineer
Thanks to simple cameras, we give eyes to your store. LiveShop allows you in real-time to:
- Monitor out of shelve.
- Visual Alerts.
- No more loss.
- Worked on Data collection and Annotation
- Transfer learning, Data augmentation, Object tracking
- Experimentation Demo video folder
  AI LiveShop

AI Grab & Go - Feb 2022
Computer vision Engineer
- Collected and annotated image data.
- Trained an Object Detection model.
- Transfer learning, Data augmentation, Object tracking

- Experimentation Demo video folder
  [AIGrab&Go](#)

[AI app for the Blind](#) - An AI app that uses the smartphone camera to help the Visually Impaired identify Nigerian currency using Object detection. This solution is domain specific to the Nigerian Currency.

[FingerPrint](#) - An AI powered webapp to extract the fingerprint from a single finger Image. You can try it with one finger in the image.

Car Damage Classifier - Trained and deployed an Image classification model for car damages. Before working with Curacel I had built an image classification model to classify damage or not damage cars.
[Demo video](#)

Built an Image classification app to detect Skin cancer
- Trained a convolutional neural network CNN using transfer learning to classify skin cancer images
- Deployed the model to an Android app using tensorflow-lite for on-device ml
-- [Source code](#)

AI Image quality app
- Trained a CNN model to detect blur and good image from snapped pictures
-- [Source code](#)

ID Verification
- Trained an Instance segmentation model to extract the face from the id card