Damilola John Oduguwa

Junior Machine Learning Engineer

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Professional Experience

2021 – 2023/04 Lagos, Nigeria	**Machine Learning Engineer** *Nithub Unilag AI Research* • Worked in teams consisting of data scientists, data engineers, and software engineers. • Orchestrated a data pipeline workflow for getting large traffic data (video + telemetry) from data warehouses using AWS Glue, Snowflake, and Redshift. • Finetuned a pretrained YOLOv5 model . • Created CI/CD workflows that automated the building and deployment of container images using github actions,Terraform and MLFlow for training and experimentation pipelines • Built a model as a service using Terraform to automate the creation of Serverless Lambda Functions from docker images on AWS ECR , creating API gateways using AWS and REST apis • Collaborated on a Research Paper on an AI Traffic Light Optimization system.

Education

Bsc.Computer Engineering
University of Lagos

Skills

Python	Pytorch
MLflow	Airflow
AWS	SQL
Spark	Docker
Kubeflow	Terraform
Git	Bash Scripting
Github Actions (CI/CD)	Pandas
Numpy	Sklearn
Argo	FastAI
KubeFlow	

Projects

Afrobeats-Playlist Recommendation app ⎋
- An app that creates afrobeat song playlists from user text inputs describing their ideal playlists using Semantic search.
• Created a dataset by scraping song lyrics, cover art, and titles using the Spotify API and other sources (Genius and musicxmatch) .
• Implemented an ETL pipeline using Pyspark and stored the dataset in S3.
• Used AWS Lambda, API gateway, ECR, and Terraform to create a model as a service architecture by automating the building and deployment of a Sentence Transformer model as a serverless lambda function.
• Hosted frontend using EC2 and ngrok for routing and Gradio.