

GBENGA DANIEL ILORI

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SUMMARY

Machine Learning & AI Engineer with hands-on experience building predictive models, neural networks, and transformer-based applications. Skilled in supervised and deep learning techniques such as image classification, segmentation, and object detection, as well as modern NLP workflows and RAG-style LLM integration. Passionate about solving real-world problems through data-driven solutions and eager to contribute to AI engineering teams in junior or internship roles. Actively expanding expertise in model evaluation, deployment workflows, and scalable ML pipelines.

PROJECTS

Retrieval-Augmented Generation (RAG) Implementation using LangChain

- Created an end-to-end RAG pipeline using LangChain to enable context-aware responses.
- Retrieved data from a website and PDF document for ingestion into a RAG pipeline.
- Leveraged the pre-trained Mistral-7B-Instruct LLM via the Hugging Face API for text generation.

Bottle-sorting Project

- Developed a CNN from scratch using PyTorch to classify Pepsi and Coca-Cola bottles.
- Downloaded the image dataset from Kaggle and prepared the data for training, testing, and validation.
- Adjusted hyperparameters and number of convolutional and linear layers to achieve a peak accuracy of 97% on validation data.

Fine-tuned a pre-trained model on MNIST Dataset using Pytorch

- Downloaded and preprocessed MNIST dataset (resizing, normalization, augmentation) to prepare for model training.
- Fine-tuned 5 of the 13 feature layers in the MobileNetV3 model for efficient digit classification and replaced the classifier head with a 10-class output layer.
- Achieved a 95% accuracy on validation dataset.

SKILLS

Languages	Python, C++, JavaScript
Frameworks	PyTorch, TensorFlow, Hugging Face Transformers, LangChain
Tools	Git, Github, Comet ML, Google Colab
Soft Skills	Problem Solving, Quick Learner, Collaboration, Time Management, Integrity

EDUCATION

B.Eng. in Mechatronics Engineering, Federal University Oye-Ekiti	2023
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WORK EXPERIENCE

AI Model Evaluator – RAG-Based Q&A System at Dione Protocol	January 2026
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- Evaluated responses generated by a RAG system through structured upvote/downvote mechanisms.
- Identified hallucination patterns and provided qualitative feedback to improve answer relevance, factual accuracy, and contextual alignment.

Community Moderator at Dione Protocol	October 2025 - Present
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