

Dahiru Ibrahim Dahiru

Keffi, Nigeria

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EDUCATION

Ahmadu Bello University

Bachelor of Engineering in Computer Engineering

• **GPA:** 4.25 / 5.0

• **Relevant Coursework:** Control engineering, digital electronics, machine learning, embedded systems, digital communication, computer networking

Zaria, Nigeria

Expected 2024

Iya Abubakar Institute of Information and Communication Technology

Diploma in Computer Systems Engineering

• **GPA:** 3.0 / 4.0

• **Relevant Coursework:** Desktop development, web programming, computer networking, computer hardware and architecture, discrete mathematics.

Zaria, Nigeria

2017 - 2019

WORK EXPERIENCE

UltrabrainAI

AI Engineer Intern

- Optimized AI algorithms for real-world efficiency to achieve a 3x inference speedup with TensorRT
- Engineered innovative solutions using YOLO for the company's flagship product
- Experimented with the all-new YOLOv9 by training on WIDER-FACE dataset (30k images, more than 390k faces) as an alternative to the existing algorithm used by the company. Additionally, made it publicly available on Torch Hub by configuring the hubconf file
- Occasionally improve the front-end user experience of the company's web platform using React

Remote – United States

Aug 2023 – Apr 2024

University of Maine

AI Research Support Consultant

- Developed an object-level reconstruction pipeline that performs 30 times faster and maintains higher memory efficiency compared to the existing state-of-the-art model documented in current research in the field
- Enhanced the Peak Signal-to-Noise Ratio (PSNR) by approximately 20% by ensuring that only relevant pixels are considered during computation
- Focus on advancing detailed object-level reconstruction by using Instant NGP, a Neural Radiance Fields platform from NVIDIA and integrating it with YOLOv8/NAS coupled with SAM to identify individual objects within a scene

Remote – United States

Jun 2023 – Present

Fruitpunch AI

Contributor / Co-coordinator – Face Detection Team

- Trained a state-of-the-art seals-face detection model utilizing RetinaNet architecture and a unique dataset of seal faces, resulting in a high-performing mAP@0.5 score of around 94%
- Developed a customized approach to suppress predicted-bounding-boxes that demonstrated superior results compared to traditional methods such as non-max suppression and IoU technique for the specific task
- Improved the quality of the training data for the model by meticulously reviewing and correcting the annotations of approximately 250 images from the dataset using Roboflow
- Effectively communicated weekly progress reports and findings to stakeholders by creating compelling presentation slides and delivering them virtually

Remote - Netherlands

Dec 2022 – Feb 2023

SKILLS, ACTIVITIES & INTERESTS

Projects (Blue on [GitHub](#)): [KoroKoro](#): 3D-centric e-commerce store | [QuickPunch](#): Daily Nigerian news digest powered by AI | Chatbots with Open Source LLMs | [Mood Scope](#) | [Face Facts](#) | [Mask Check](#) | [Change-Your-Style](#) | [TLDR-the-T&C](#) | [Fire-Detector](#) | E-commerce recommender system and [more](#).

Technical Skills: Python, Deep Learning / Machine Learning, Pytorch, Tensorflow, gRPC, REST APIs, Docker, Cloud (Azure & AWS), Kubernetes, LLMs, NeRFs, NextJS, React, Electronics Engineering, C++, Arduino, SQL, Data Analysis, Git, Linux, Microsoft Office Suite.

Certifications & Training: Practical Deep Learning for Coders (FastAI), Deep Learning Specialization (DeepLearning.AI), Machine Learning (Stanford Online), Data Science Micro degree (Ustacky)