ANGEL EGWAOJE

Lagos, Nigeria

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EDUCATION

Afe Babalola University   **Nov 2021 – Jun 2025**
B.Sc. Computer Science — First Class Honours (CGPA: 4.82 / 5.00)   *Nigeria*

RESEARCH INTERESTS

Artificial Intelligence, Deep Learning, Computer Vision, Medical Image Analysis, Explainable AI, Healthcare AI, Predictive Modeling

RESEARCH PROJECTS

RetinaLens AI: Diabetic Retinopathy Detection (EfficientNet)   **Jan 2026 – Feb 2026**

– Developed a deep learning system for 5-class diabetic retinopathy classification from retinal fundus images.

– Trained an EfficientNet-based convolutional neural network with preprocessing and augmentation pipeline.

– Achieved validation AUC 99.60%, accuracy 98.23%, and F1-score 98.27%.

– Deployed as an interactive web application for automated screening support.

Brain Tumor Segmentation Using U-Net (BraTS Dataset)   **Dec 2025 – Jan 2026**

– Developed a deep learning system for pixel-level brain tumor segmentation from MRI scans including preprocessing, normalization, and mask alignment.

– Designed and trained a U-Net convolutional neural network for medical image segmentation.

– Achieved Dice score 91.47%, accuracy 99.54%, F1-score 91.47%, sensitivity 89.93%, and specificity 99.81%.

– Deployed the trained model as a Flask-based web application for interactive inference.

Lung Cancer Detection Using ResNet-50 on CT Scans   **Nov 2024 – Jun 2025**

– Implemented a ResNet-50 convolutional neural network for automated lung cancer detection from CT scan slices with preprocessing and augmentation.

– Evaluated performance using medical classification metrics.

– Achieved 98.46% accuracy, 97.69% sensitivity, 99.22% specificity, and 98.45% F1-score.

– Deployed as a Flask web application for real-time image-based analysis.

EXPERIENCE

Nerdz Factory Foundation   **Jul 2025 – Oct 2025**
AI Trainee Intern   *Lagos, Nigeria*

– Worked on brain tumor detection using convolutional neural network models within a supervised research environment.

– Assisted in medical image preprocessing, experiment tracking, and evaluation workflows.

– Maintained structured experiment logs supporting reproducibility and collaborative model development.

Tech4Dev   **Jul 2023 – Sep 2023**
Programs Intern   *Lagos, Nigeria*

– Analyzed survey data from 500+ applicants across five regions using Python and pandas.

– Identified a 30% digital skills gap through exploratory data analysis to support program planning decisions.

TECHNICAL SKILLS

Programming: Python (advanced), Java, C++, HTML/CSS, JavaScript
Machine Learning & Deep Learning: PyTorch, TensorFlow, CNNs, U-Net, ResNet-50, EfficientNet, Transfer Learning
Data Analysis & Tools: NumPy, pandas, OpenCV, scikit-learn, Matplotlib, ONNX, Jupyter
Deployment: Flask, Web-based ML Applications, Git/GitHub

AWARDS & ACTIVITIES

Dean's List for Academic Excellence — Afe Babalola University (2022–2025)
Data Privacy and Protection Club Member — Afe Babalola University (2024–2025)