

ABDULMALIK ADEYEMO

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EDUCATION

B.Eng Computer Engineering [08/2015 – 08/2021]

University of Ilorin, Ilorin, Nigeria [website](#)

GPA: 4.68/5.0 (First Class): Top 1% of over 9000 graduated students in 2021

Relevant Courses (Grades): Artificial Intelligence and Applications (A), Software Engineering (A), Software Development Techniques (A), Engineering Mathematics II (A), Control Theory (A), Fuzzy Logic and Programming (A), Introduction to Robotics and Automation (A)

RESEARCH EXPERIENCE

Graduate Research Intern [01/2022 – 12/2022]

National Center for Artificial Intelligence and Robotics, Abuja, Nigeria.

Supervisor: Mr Murtala Dattijo

Research Topic: Automated Diagnosis of Diabetic Retinopathy from Fundus Images

- Reviewed literature on the different techniques in applying deep learning for early diagnosis using image data.
- Implemented the methodology and wrote an academic paper on the research. [Link to Abstract](#)

Undergraduate Research Assistant [10/2019 – 05/2021]

Computer Engineering, University of Ilorin, Ilorin, Nigeria.

Supervisor: Dr Aye Ajiboye

Undergraduate Thesis: Design and Development of a Semi-Autonomous Drone System.

- Wrote a research proposal, reviewed literature, and reported findings on a semi-autonomous drone system for security surveillance and package delivery.
- Wrote and submitted the mathematical analysis of the drone design for a thrust-to-weight ratio of 2:1.
- Led a team of 7 students in the design and development of the drone system.

WORK EXPERIENCE

Machine Learning Intern [01/2022 – 12/2022]

National Center for Artificial Intelligence and Robotics, Abuja, Nigeria

- Built 2 deep learning models, a binary-class ResNet-50 model trained on 85,056 fundus images to detect the presence or absence of diabetic retinopathy, and a multi-class ResNet-18 model trained on 44,224 fundus images to grade the severity level diabetic retinopathy. [Project Link](#)
- Developed a state-of-the-art chest X-ray classifier by retraining a DenseNet model on 108,948 frontal-view X-ray images of 32,717 unique patients. [Project Link](#)
- Built a 3D U-Net model for brain tumor auto-segmentation from 484 3D magnetic resonance imaging (MRI) scans. [Project Link](#)
- Taught 12 interns in the implementation of python for artificial intelligence.

Data Science Intern [07/2022 – 10/2022]

Hamoye AI, Remote

- Spearheaded a team of 20 interns on the development, evaluation, and deployment of a dementia prediction model based on a tabular dataset of 150 subjects aged 60 to 96, with a 91% accuracy. [Project Link](#)
- Built a multi-label images classifier for satellite image chips with atmospheric conditions and various classes of land cover/land use using tensorflow, with an f2_score of 90%. [Project Link](#)

Graduate Teaching Assistant [06/2021 – 09/2021]

Robotics and Artificial Intelligence Nigeria, Ibadan, Nigeria

- Trained 9 interns on the internet of things using Arduino and ESP8266 micro controllers.
- Supervised 9 interns on the development of a cloud based home automation system and a smart irrigation system.

PROFESSIONAL DEVELOPMENT AND CERTIFICATIONS

Machine Learning Specialization - Stanford DeepLearning.AI. Certificate	[07/2022 – 08/2022]
AI for Medical Diagnosis - Coursera DeepLearning.AI. Certificate	[02/2022 – 03/2022]
Practical Deep Learning For Coders - FastAI. Link	[08/2021 – 01/2022]
Applied Data Science - WorldQuant University. Certificate	[09/2021 – 12/2021]
Python 3 Programming: Beginner To Pro Masterclass - Udemy. Certificate	[04/2019 – 07/2019]

CONFERENCES AND PRESENTATIONS

- Department of Surgery, University of Ilorin research day on “Emerging Technologies in Surgery, Implication for Training and Practice in Resource Poor Settings”, A 4 minute presentation by **Abdulmalik Adeyemo**, on “Automated Diagnosis Of Diabetic Retinopathy From Fundus Images Using Artificial Intelligence” [7/10/2022]
- Exhibitor at Digital Nigeria Conference on “Digital Transformation: A path to sustainable digital economy”
- Deep Learning IndabaX conference on “Responsible AI in National Security and Healthcare”.
- Abdulmalik Adeyemo (2021): Design and Development of a Semi-Autonomous Drone System. A B.Eng undergraduate research project, submitted to the department of Computer Engineering, University of Ilorin, Ilorin, Nigeria.

LEADERSHIP EXPERIENCE

CEO and Co-founder [04/2022 – Present]
FundusAI, Abuja, Nigeria

- Created and presented the company's pitch deck during the iHatch startup incubation interview, which resulted in the company being selected as one of the top 6 out of over 8000 interviewed startups.
- Represented the company in pitching the solution during the CWG-PLC pitch for transformation challenge and was awarded 1st runner-up out of 100+ contestants.
- Collaborating with the Chief Technology Officer to develop a diagnostic device for capturing fundus images.

AWARDS AND SCHOLARSHIP

Best intern award for the stage B data science track, Hamoye AI.	[09/2022]
Best graduating student, Department of Computer Engineering, University of Ilorin.	[08/2021]
First class honors award in Computer Engineering, University of Ilorin.	[08/2021]
Undergraduate scholarship award for the best student in Computer Engineering.	[2016 – 2021]

VOLUNTEERING EXPERIENCE

Artificial Intelligence Tutor [08/2022 – 09/2022]
NITDA STEM BOOT CAMP FOR KIDS, Abuja, Nigeria

- Tutored 156 kids aged 12 to 16 on how to build a facial recognition system using AI

Lead Tutor [02/2018 – 07/2021]
LearnWithMKTV, Ilorin, Nigeria

- Organized and tutored 20 classmates on difficult subjects, which helped them achieve academic success.
- Coached 150+ students on how to achieve academic success while keeping a good social life.

PROFESSIONAL AFFILIATIONS

Black in AI Community [Member]	[2022 - Present]
AI for Good Community [Member]	[2022 - Present]
DeepLearning.AI Community [Member]	[2022 - Present]
Data Science Nigeria Community [Member]	[2021 - Present]

SKILLS

Libraries and Frameworks: Tensorflow, Pytorch, FastAI, Python, Scikit-learn, Pandas, Numpy, Matplotlib, Seaborn.

Laboratory: 3D Printer, Laser Cutting machine, Soldering Iron, Raspberry Pi, Arduino, ESPs.

Soft Skills: Team Leadership, Independence of Thought, Civic Mindset, Innovative Thinking

Languages: English (Bilingual Proficiency), Yoruba (Bilingual Proficiency)