

# JOSHUA OLUWATIMILEYIN SALAKO

Lagos, Nigeria

Phone Number: +234 905 2959 263      Email: [salakojoshua1234@gmail.com](mailto:salakojoshua1234@gmail.com)  
<https://www.linkedin.com/in/salakojoshua>

## OBJECTIVE

I aim to bridge the gap between engineering, technology, and AI by leveraging my expertise in these domains. My main goal is to research and develop intelligent systems that can revolutionize how complex problems are approached and solved

## EDUCATION

AUG 2019 - AUG 2024      Federal University of Agriculture, Abeokuta (FUNAAB), Nigeria  
**Bachelor of Engineering (BEng) in Electrical and Electronics Engineering**  
C.G.P.A: 4.40/5.00

## INDEPENDENT COURSEWORK

- AI Programming with Python Nanodegree	Udacity	- Data Scientist with Python Track	Datacamp
- AWS ML Foundations		- ML Fundamentals with Python Track	
- Machine Learning Fundamentals			
- Deep Learning Specialization	Coursera		

## SKILLS

- Engineering and technological practices
- Project Management and Supervision
- Python programming (Pandas, NumPy, Matplotlib, Beautiful Soup, Streamlit)
- Data Science and Machine Learning (Scikit Learn, TensorFlow, PyTorch, Computer Vision, NLP)
- Mobile Development (Flutter)
- Backend Development (Django, Flask, FastAPI)
- Proficiency in Google Workspace
- Soft Skills

## EXPERIENCE

- Jan 2024 - Oct 2024      **AI Lead**, NUTEC (a subsidiary of Nigerian Union of Engineering Students Association (NUESA), FUNAAB Chapter)
- Conceived and executed a comprehensive AI education initiative, empowering engineering students with in-demand skills in AI, ML, and Data Science
  - Voluntarily developed and taught curriculum-aligned workshops, bridging the gap between theoretical foundations and real-world applications.
  - Fostered a collaborative community through weekly meetups, encouraging peer-to-peer learning, and industry-relevant project development
  - Culminated the program with a hackathon, assessing student progress, and recognizing outstanding projects

Oct 2024	<b>Poster Presenter, Data Science Nigeria (DSN) AI Bootcamp 2024</b> Participated in the DSN AI bootcamp and presented a poster titled "Fish-NET: Advancing Aquaculture Management through AI-Enhanced Fish Monitoring and Tracking" on Computer Vision
Aug 2023 - Nov 2023	<b>AI Researcher (Intern), ADA Global Concept</b> <ul style="list-style-type: none"> <li>Co-authored a peer-reviewed research paper on deep learning methodologies, published in a reputable journal, demonstrating expertise in machine learning research and collaboration</li> <li>Designed, implemented, and evaluated multiple deep learning models using TensorFlow and PyTorch, achieving state-of-the-art performance on the Nigerian Catfish Dataset</li> <li>Conducted comprehensive literature reviews, identifying knowledge gaps and contributing novel insights to machine learning, with findings published in a Q2 Journal</li> </ul>
Aug 2023 - Dec 2023	<b>Engineering Project Supervisor (Intern), Ardova Plc</b> Actively involved in the supervision and development of several projects on-site which include; <ul style="list-style-type: none"> <li>Decommissioning of 20 oil tanks (PMS, AGO, and ATK) and a base oil plant</li> <li>Construction and fabrication of 9 base oil tanks from foundation to priming and installation</li> <li>Installation of automated valves, induction motors, and earthing system of the petroleum distribution facility</li> <li>Construction of a 20 thousand metric tonne LPG storage facility (largest in West Africa)</li> </ul>
Feb 2023 - Apr 2023	<b>Electrical Engineer (Intern), Drugfield Pharmaceutical Limited</b> <ul style="list-style-type: none"> <li>Collaborated with the cross-functional Engineering team to design, install, and integrate complex control panels for a cutting-edge, state-of-the-art manufacturing plant</li> <li>Spearheaded the maintenance and upkeep of sophisticated electrical equipment and systems, guaranteeing 99%+ uptime and reliability across the entire manufacturing facility</li> </ul>
May 2022 - Aug 2022	<b>Data Analyst, Techtrend Africa</b> <ul style="list-style-type: none"> <li>Designed and deployed a scalable recommender system using Python, Scikit-learn, and collaborative filtering, achieving a 15% improvement in recommendation accuracy and a 20% increase in user engagement.</li> <li>Developed and implemented a time-series forecasting model utilizing ARIMA, enhancing demand planning accuracy by 25%, reducing inventory costs by 12%, and improving supply chain efficiency</li> </ul>
Apr 2022 - May 2022	<b>Training Facilitator, DSN</b> Volunteered to facilitate AI Invasion 2022, a free AI training class, mentoring over 150 students on the basics of Artificial Intelligence and practical applications
Jan 2022	<b>Student Tutor, NUESA, FUNAAB Chapter</b> Volunteered as a tutor for lower-level students, fostering academic growth and confidence through group workshops

Aug 2021 - Oct 2024    **Core Team Member**, FUNAAB DSN Artificial Intelligence Student Club

- Played a pivotal role in shaping the club's vision and strategy, driving student engagement, and cultivating a vibrant community of AI enthusiasts.
- Conceptualized and executed innovative programs, workshops, and events that enhanced members' technical skills, industry knowledge, and networking opportunities.

## AWARDS

---

- Recipient of the prestigious Senator Olamilekan Yayi Undergraduate Scholarship Award (2023/2024) for outstanding academic achievement
- AWS AI & ML Scholarship Program - received a scholarship for Udacity AI Programming with Python Nanodegree program (worth \$4,000)
- Google Solution Challenge - Awarded a Certificate for submitting a solution in the 2022 and 2024 Solution Challenge hosted by Google Developer Student Clubs.

## PUBLICATIONS

---

- Salako, J., Ojo, F. and Awe, O. O. (2024) "Fish-NET: Advancing Aquaculture Management through AI-Enhanced Fish Monitoring and Tracking", *AGRIS on-line Papers in Economics and Informatics*, Vol. 16, No. 2, pp. 121-131. ISSN 1804-1930. DOI 10.7160/aol.2024.160209

## PROJECTS

---

- **Computer Vision** - [CLI Image Classifier Application](#)
  - Trained a deep neural network on a user-defined dataset of images, saving the model as a checkpoint for future use
  - Deployed the model to make real-time inferences on image classes
- **Natural Language Processing (NLP)** - [English to Yoruba Machine Translator](#)
  - Fine-tuned a Multilingual Transformer Model (MT5) for English-to-Yoruba Neural Machine Translation, achieving a BLEU score of 12 on the Menyo-20k\_MT dataset
  - Implemented Data Preprocessing Techniques including text normalization and sentence filtering, showcasing an understanding of data quality's impact on model performance
  - Developed Custom Dataset and Dataloader Classes using PyTorch to handle sequence-to-sequence translation data efficiently
- **Mobile and Backend Development** - [Mobile Veterinary Telemedicine Application](#)
  - Designed and developed a user-centric mobile app connecting pet owners with local veterinary professionals using Google Maps API and Flutter
  - Implemented secure user authentication and authorization
  - Built an intelligent appointment scheduling system with real-time availability and a customizable notification system
- **Mathematics** - [Pi Digits Generator Application](#)
  - A web-based application that generates  $\pi$  to very large number of decimal places
- **Time Series** - [Currency Foreign Exchange Rate Prediction](#)
  - Web-based application that uses ARIMA and Prophet model to forecast foreign exchange rates
- **Computer Vision** - [AI-Generated Image Detector](#)
  - Developed a model that detects an AI-generated image from real human-created images
- **Machine Learning** - [Nollywood Movie Recommender System](#)
  - Developed a recommendation model to provide personalized movie suggestions to Nollywood fans

## INTERESTS

---

- Languages: English, Yoruba (Native)
- Extracurriculars: Video games, Music

## REFEREES

---

Available on request