




TIMILEHIN AYANLADE

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EDUCATION

PhD Mechanical Engineering MS Mechanical Engineering Iowa State University	January 2022 - Current May 2023
The Introduction to Machine Learning and Deep Learning Runmila AI Institute x AI Commons	December 2021
BEng. In Agricultural Engineering The Federal University of Technology Akure (FUTA), Ondo State First Class Honours (4.73 of 5.00 CGPA)	November 2019
West African Senior School Certificate Examination (WASSCE) Pacesetter Comprehensive College, Iragbiji	July 2014

CONFERENCES PRESENTATIONS

Fourth and Fifth Machine Learning for Cyber Agricultural Systems Conference University of Tokyo, Japan, and AI Institute for Resilient Agriculture, Iowa State	October 2022, July 2023
7th International Plant Phenotyping Symposium, Netherlands International Plant Phenotyping Network	September 2022

WRITING / PUBLICATION

Multi-pronged-omics to tackle climate change challenges in crop Productivity Translational AI Centre Seed Grant Writing	February 2023
Grant Writing for Smart Farm at Iowa State University	July 2022
Ayanlade, T. T., Adegboyega, J. A., & Olalusi, A. P. (2020). Modeling the Drying of Soybean Crud Residue-Based Fish Feed. <i>Journal of Engineering Research and Reports</i>, 18(2), 38-49.	November 2020

UNDERGRADUATE RESEARCH PROJECTS

Modeling the Drying of Soybean Crud Residue-Based Fish Feed	December 2019
Development of an Affordable Soil Moisture Determination Device for Local Farmers in Akure	March 2018
Soil-Water Analysis of 6 Communities within Ondo State, Nigeria	August 2017
Feasibility Studies on Leather Production Factory in Akure, Nigeria	February 2017

CONFERENCES AND WORKSHOPS ATTENDED

AI for Agriculture and Food Systems (AIAFS)	February 2023
Third and Fourth Machine Learning for Cyber Agricultural Systems Conference University of Tokyo, Japan, and AI Institute for Resilient Agriculture, Iowa State	October 2021,2022
7th International Plant Phenotyping Symposium, Netherlands International Plant Phenotyping Network	September 2022
Engineering Africa's Agro-Industrial Transformation for Economic Prosperity and Sustainable Development PASAE-NIAE 2020 International Conference (Postponed Virtual)	April 2021

Global Landscapes Forum (GLF) Digital Conference: Food in the Time of Crisis. Global Landscapes Forum (GLF)	June 2020
12th Commission Internationale du Genie Rural (CIGR) Section VI Post-Harvest Technology 2018 and Bioprocess Engineering Conference CIGR in Partnership with the International Institute of Tropical Agriculture	February
Innovative and Adaptive Technology for National Development May 2017 School of Engineering and Engineering Technology (SEET) Conference	
School of Engineering, FUTA Annual Lectures School of Engineering and Engineering Technology (SEET)	April 2015, July 2016

CERTIFICATIONS AND TRAINING

The Full Stack Large Language Models BootCamp	April 2023
Transfer Learning for Images Using PyTorch: Essential Training Building Transformer-Based Natural Language Processing Applications Fundamentals of Deep Learning for Multi-GPUs NVIDIA LinkedIn	2022
Introduction to Machine Learning Pandas Data Visualization SQL Feature Engineering Intermediate Machine Learning Kaggle	2021
Machine Learning Foundations Google Developers	March 2021
Agripreneurship: A Path to the Future The Young African Leaders Initiative (YALI)	March 2021
Understanding Climate Change YALI	March 2021
West Africa Emerging Leaders Program YALI Regional Leadership Center, West Africa	September 2020 - January 2021
Entrepreneurship Development Training Programme Small and Medium Enterprise Development Agency of Nigeria	August 2018

LANGUAGES

English (Fluent) | Spanish (Basic)

AWARDS, HONOURS, AND ADDITIONAL RECOGNITIONS

The Deutscher Akademischer Austauschdienst (DAAD) In-Region Scholarship Programme The German Federal Ministry for Economic Cooperation and Development (BMZ)	August 2021
Waitlisted for FAO Hungarian Government Program Food and Agriculture Organization and Hungarian Government	July 2021
Dean's List School of Engineering and Engineering Technology, FUTA	2015/2016 – 2018/2019 Session

Certificate of Excellence
Nigeria Society of Engineers, FUTA

November 2019

2nd Best Graduating Student
Department of Agricultural Engineering

November 2019

Science and Technology Scholar
November 2019
Mobile Telephone Network (MTN) Foundation

August 2015 –

WORK EXPERIENCE

Research Assistant **January 2022 – Current**

Self-Aware Complex Systems Laboratory | Translational AI Center, Iowa State University

- Multimodal Data Analysis and collection
- Built Framework for generation of UAV level data from Satellite Imagery
- Training Deep Learning Models for Cross-modal Learning
- Review and paper writing
- Presentations for Research Grant Review meetings

Research Engineer **March 2021 – December 2021**

Fifth-Echelon Integrated Limited

- Management of pilot projects,
- Management of Tractor operations and other technical responsibilities on the farm,
- Performance evaluation of Processing Machineries,
- Design and Operation of Farm and processing machinery,
- Prepared the founding operations pipeline for the Family owned Startup with a limited budget and resources.

Teaching and Research Assistant **March 2020 – March 2021**

University of Ibadan, Nigeria

- Led the impromptu transition of classes to an online system due to the pandemic;
- Assisted professors with organizing classroom sessions and tutorials,
- Took students' attendance and recorded notes during such sessions,
- Evaluated students' performance, through quizzes and assignments, based on professors' criteria,
- Received inquiries and communicated with students as regards assignments, attendance, and course materials,
- Facilitated and organized tutorial and review sessions pro-bono for exams,
- Reviewed papers and articles for research and prior to publishing,
- Collected and analyzed data during studies
- Other duties as assigned to by Lecturers.

Research Engineer **June 2018 –**
December 2018/ 2021

Niji Group, Ilero, Oyo state

- Operated, modified, and installed locally fabricated and imported cassava processing machines such as the automatic Garri fryer, cassava flash dryer, and cassava grater.
- Contributed to the production of tonnes of cassava products, which includes fine Garri, odorless Fufu, high-quality Cassava Flour, and Starch.
- Cultivated 2.5 hectares of land, using a rotavator coupled with a 26Hp Niji tractor.
- Pioneered the research on the conversion of the company's over 90,000 tons of cassava wastewater to biogas to conserve energy and environmental protection.
- Delivered the company's welcome address, workshop report, and weekly assignments at various functions, which improved my presentation skills, report writing skills, and research skills.

CORE COMPETENCIES AND SOFTWARE SKILLS

EXTRACURRICULAR ACTIVITIES

Webpage Lead, International Workshop on Machine Learning for Cyber-Agricultural Systems

- Spearheaded the development and ongoing management of the official workshop webpage. Successfully maintained an up-to-date and user-friendly platform for participants, ensuring seamless access to essential information, registration, and resources for the international workshop on Machine Learning for Cyber-Agricultural Systems.
- Led a team of volunteers in coordinating website updates, content creation, and troubleshooting during the workshop preparation phase. Collaborated with workshop organizers, presenters, and participants to gather and disseminate information effectively, enhancing the overall workshop experience.

Assistant Program Facilitator, Caring Hands International (CHI) Osun

January 2020 – March 2020

- Contributed to the improved service delivery and rural sustainability in Boripe Local Government of Osun State, Nigeria by evaluating 6 healthcare centers and community environment, through the Accountability of Malaria Intervention program,
- Sourced information from clientele through questionnaires and focus group discussions (FGD),
- Translated the questionnaires from English to Clienteles' local dialect (Yoruba language).

Member, Impact Leaders Club (FUTA)

- Participated in awareness programs, public sanitation activities, stakeholder meetings, and learning programs organized.

Peer Tutor

- Held 50+ individual and group tutoring sessions in Pure Mathematics, Calculus, Hydraulics, Survey, and Environmental Technology during my undergraduate study.

Career Skills Tutor, Dinamico Consulting Akure

January 2019 – December 2019

- Equipped 180 students aged 5 – 12 in Akure, with life-long skills such as financial literacy, critical thinking and use of English using Monopoly, Chess, and Scrabble respectively.

ASSOCIATIONS AND PROFESSIONAL MEMBERSHIP

Member, Institute of Electrical and Electronics Engineers

Member, Association for the Advancement of Artificial Intelligence

Member, National Society of Black Engineers (NSBE)

President, Africa Learning and Evolving Community (AfLEC Iowa State University)

Member, Young Manufacturing Leaders

Member, Nigeria Society of Engineers (NSE)

Member, Global Landscapes Forum (GLFx)

Member, FUTA Alumni Association

Member, Nigeria Institute of Agricultural Engineers (NIAE)