# YEMISI ESTHER AKINSELI

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## PROFESSIONAL SUMMARY

First-Class Computer Engineering graduate (Top 1%) with extensive experience in data engineering, machine learning pipelines, and technical logic validation. Proven track record in designing national data frameworks, optimizing model accuracy metrics, and evaluating complex datasets. Seeking to leverage deep technical judgment for asynchronous AI training, LLM logic evaluation, and advanced data analytics roles

## EDUCATION

**FEDERAL UNIVERSITY OF TECHNOLOGY MINNA, (FUTMINNA) NIGERIA.** **Mar 2019 - Jan 2025**
Program: **Bachelor of Engineering**, **Computer Engineering**
Grade: First Class – **4.76/5.0**
Class Rank: **Top 1%**

## SKILLS AND COMPETENCE

- **Programming:** C, C++, Python, MATLAB.
- **Data Science & ML:** Pandas, Scikit-Learn, XGBoost, SHAP, Matplotlib, Data Analysis, Machine Learning
- **Business Intelligence**: Power BI (DashBoarding, Data Visualization, DAX)
- **Automation & Productivity:** Zapier, Chatbase, Zoho CRM, Asana, Trello, Notion, Google.
- **Software and Design:** Solidworks, MATLAB, Jupyter Notebook, Figma, Embedded Systems
- **Languages**: English

## PROFESSIONAL EXPERIENCE

**Monitoring, Evaluation, Research & Learning (MERL) Analyst / Consultant** **Oct 2025 – Present**
***Solina Centre for International Development and Research (SCIDaR),*** *Abuja, Nigeria*

- Led the technical digitization, evaluation, and quality assurance of national data frameworks for the Universal Basic Education Commission (UBEC), enhancing cross-board reporting precision
- Engineered and optimized automated data collection tools within ODK, establishing strict data validation pipelines to eliminate reporting anomalies
- Developed interactive analytical dashboards and data management tools to monitor program implementation indicators, translating complex data into actionable recommendations for high-level government stakeholders.

**AI Workflow & Technical Automation Engineer** **Aug 2025 – Sep 2025**
*LearnWithWiDa*

- Designed an AI-powered automated workflow architecture utilizing Chatbase and Zapier API integrations to optimize client onboarding pipelines and eliminate manual data entry latency
- Integrated Zoho CRM and data analytics tools to implement automated lead scoring and pipeline management protocols

**Predictive Loan Default Risk Model** **Apr 2025 – Sep 2025**
***Data Science,*** *AxiaAfrica*

- Developed a full machine learning pipeline in Python to predict loan default risk, from data cleaning and feature engineering (Pandas) to model building (Scikit-learn, XGBoost)
- Created interactive Power Bi dashboards to visualize key risk factors (e.g., credit, score, debt-to-income ratio) and translate model insights into actionable business intelligence

**Operations & Project Support Specialist** **Apr 2025 – May 2025**
***ALX Africa***

- Managed technical operational workflows, stakeholder communication matrices, and data tracking frameworks for high-level digital engagements
- Authored, structured, and archived comprehensive project reports, analytical memos, and technical documentation for executive review

**National Centre for Artificial Intelligence & Robotics (NCAIR)** **Sep 2023 – Feb 2024**
***AI Intern,*** *NCAIR*

- Developed a Python script for automated data extraction from websites and collaborated on a facial recognition system using computer vision and machine learning techniques

## RESEARCH EXPERIENCE

**Federal University of Technology, Minna** **Jan 2024 – Jul 2024**
***Department of Computer Engineering***

- Designed and implemented an IoT-enabled crop health monitoring system integrating soil moisture, NPK, temperature, and humidity sensors with machine-learning-based rice disease detection and a rule-based recommendation engine
- Developed and fine-tuned a MobileNetV2 transfer-learning model for classifying 15 rice diseases using 22,688 images, achieving 96.42% accuracy, and deployed the model for real-time inference

**Automatic Railway Cross Gate System – Research Project** **Jul 2023 – Dec 2023**
***Federal University of Technology, Minna***

- Reviewed and synthesized literature on automated railway crossing systems, examining sensor-based detection and automated gate-control approaches to contextualize the proposed system
- Developed and documented the research manuscript, covering the system architecture, operational logic, prototype testing, and performance evaluation, which demonstrated 100% functional accuracy under controlled testing

## PUBLICATIONS

- Isah, R. O., **Akinseli, Y. E.,** Wright, F. D., & Adekeye, D. L. (2026). An intelligent crop health monitoring, disease detection, and

recommender system for improving rice production. *International Journal of Engineering and Manufacturing, 16*(3), 325-344. https://doi.org/10.5815/ijem.2026.03.20

- Adekeye, D. L., Saleh, I., & **Akinseli, Y. E.** (2025). Design and implementation of an automatic gate for cars at railway crossings. *FUDMA Journal of Engineering and Technology, 1*(2), 208-219. https://doi.org/10.33003/nqv7hm91

## VOLUNTEERING/LEADERSHIP EXPERIENCE

**Class Representative, Computer Engineering Department, Federal University of Technology Minna.**

**Jan 2021 – Jan 2025**

- Served as a liaison for communication between 70+ students and faculty for 4 years, addressing concerns and inquiries in both directions
- Facilitated effective dissemination of critical information from faculty/administration to the class and supported classmates in accessing academic resources and services

**WAAW Fellow** **Aug 2022**

- Volunteered with the WAAW Foundation to teach government secondary schools in Minna, Nigeria
- Implemented electronics, Arduino, and robotics projects while facilitating hands-on activities to enhance students' practical understanding

## TRAINING AND CERTIFICATIONS

- Virtual Assistant | Link — **Jun 2025**
  By: ALX
- WorkFlow Specialist | Link — **Mar 2025**
  By: Asana
- Data Analytics Job Simulation | Link — **Mar 2025**
  By: Deloitte via Forage
- Data Analytics Essentials | Link — **Jun 2024**
  By: CISCO via MTN
- Machine Learning Foundations: A Case Study Approach | Link — **May 2024**
  By: University of Washington via Coursera
- Beginner Python | Link — **Nov 2023 – Dec 2023**
  By: National Centre for Artificial Intelligence & Robotics (NCAIR)
- Intermediate AI, ML, & Python | Link — **Nov 2023 – Dec 2023**
  By: National Centre for Artificial Intelligence & Robotics (NCAIR)
- Introduction to Cybersecurity | Link — **Jul 2022**
  By: MTN via CISCO

## CONFERENCES/WORKSHOP ATTENDED

- iHatch Startup Incubation Program – 2nd Cohort Demo Day & 3rd Cohort Opening Ceremony — **Jan 2024**
  By: NITDA,Federal Ministryof Communications, Innovation& Digital Economy,and JICA

## HONORS AND AWARDS

- Best Graduating Student in the School of Electrical Engineering Technology (SEET) | Link — **2025**
- Best Graduating Student in the Department of Computer Engineering | Link — **2025**
- ITU AI/ML in 5G | Link — **2022**
- Vice Chancellor Award (Federal University of Technology Minna) | Link — **2020-2022**
- NNPC – Chevron Scholarship (AGBAMI) | Link — **2021**
- SEPLAT Petroleum Company (NNPC/SEPLAT) Scholarship | Link — **2021**
- MTN Foundation Scholarship | Link — **2021**

## MEMBERSHIP AND AFFILIATIONS

- International Telecommunication Union (ITU)
- International Association of Engineers (IAENG)
- Nigerian Society of Engineers (NSE)
- Nigerian Universities' Engineering Student Association
- National Association of Computer Engineering Students