

# UDUMA IDIKA

MSc. Data Management & Artificial Intelligence (in view)

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## EDUCATION

### MSc. Data Management & Artificial Intelligence (in-view)

Ecole Centrale d'Electronique (ECE), Paris, France 09/2024–08/2026

### B.Eng. Petroleum Engineering: 1<sup>st</sup> Class Honors (4.80/5.00)

Federal University of Technology, Owerri (FUTO), Nigeria 12/2013–04/2019

## KEY PROJECTS

### Azure ML Serverless Workflow Solution (MLOps)

Designed and deployed an end-to-end serverless ML inference system using some Azure Core Services and containerized ML Inference APIs. Delivered scalable, production-style inference orchestration. [GitHub Link](#)

**Tech Stack:** Blob Storage, Functions, Container Apps, Python, FastAPI, Docker

### Retrieval-Augmented Generation (RAG) System

Built a RAG pipeline using Hugging Face models and vector databases to extract context-aware information from PDFs based on user prompts. Demonstrated practical Generative AI (**GenAI**) application. [GitHub Link](#)

### Basis Functions & Neural Network Development from Scratch using JAX

Built custom basis functions and neural networks from scratch using JAX; transformed multiple datasets and achieved **95%+** accuracy. [GitHub Link](#)

## PROFESSIONAL EXPERIENCE

### Innovation Analyst

12/2023–09/2024

#### Nigeria Inter-Bank Settlement System (NIBSS)

Lagos, Nigeria

- Automated workflows using Power Automate for innovative ideas analysis.
- Built data-driven solutions from disparate sources to improve decision-making.

### Head, IT Governance

10/2022–12/2023

#### ParalleX Bank Limited

Lagos, Nigeria

- Designed data flow diagrams to support decision making using Microsoft Visio.
- Automated IT service improvement system using Microsoft Power Automate. This reduced quick-fixes deployment TAT by 90%.

### Enterprise Architect

12/2020–10/2022

#### Guaranty Trust Bank (GTBank)

Lagos, Nigeria

- Prepared IT strategy (2022 – 2025), in alignment with business goals.
- Automated the Group's Internal Audit reporting process, resulting in cost savings of **\$10,000+** annually.

## TECHNICAL SKILLS

- Programming & Data Engineering:** Python, Scikit-Learn, SQL, MongoDB, Data Modeling (Looping), ETL Pipelines, **Databricks**.
- Analytics & Data Science:** Exploratory Data Analysis, Feature Engineering, Supervised & Unsupervised Learning, Model Evaluation (ROC, F1, AUC)
- Databricks & Cloud:** Databricks Fundamentals, Microsoft Azure, AWS
- Generative AI & ML:** PyTorch, Hugging Face, Transformers, RAG, LLM, NLP
- Business Intelligence & Visualization:** Power BI, Excel, Matplotlib, Seaborn, Plotly.
- Tools & Practices:** GitHub, Google Colab, Kaggle, Documentation & Reporting, Power Automate, Microsoft Visio, Looping

Data-driven professional currently pursuing an **MSc in Artificial Intelligence** with strong hands-on experience in GenAI, data science, data engineering, ETL pipelines, analytics, and business intelligence.

Proven ability to build **end-to-end data workflows** using Python, SQL, Databricks, and cloud platforms.

Seeking a **6-month AI/Data Scientist internship** to contribute to client projects and internal data infrastructure initiatives.

## CERTIFICATIONS

- 2025 Databricks Accredited Academy – Databricks Fundamentals [Link](#)
- 2025 AWS Academy Graduate – AWS Academy Cloud Foundations [Link](#)
- 2024 Python for Data Science. Issued by DataScientest. [Link](#)
- 2023 ISO 20000, 22301, and 27001 Foundation. Certified by S&BP (Standards & Best Practices) [Link](#)
- 2022 TOGAF® 9 Foundation. Issued by The Open Group. [Link](#)
- 2022 Professional Scrum Master 1. Issued by Scrum.org. [Link](#)
- 2021 Microsoft Certified: Azure Fundamentals (AZ 900). [Link](#)

## SOFT SKILLS

- Team Collaboration
- Effective Communication
- Curiosity & Continuous Learning
- Languages:** English (fluent), French (A2/B1)