

# Chinedu Matthew Uzim

AI Researcher & PhD Candidate | Data Scientist & Statistician | MSc Data Analytics (Distinction)

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## PROFESSIONAL SUMMARY

PhD researcher at Leeds Beckett University specialising in causal, predictive, and proactive AI systems for sustainable food security in Sub-Saharan Africa. Distinction-level MSc Data Analytics graduate with strong hands-on experience in statistical modelling, machine learning, GIS analysis, and AI systems development. Published researcher, creator of SmartSkann (Skannr's AI-powered symptom-to-scan recommendation system), and proficient across Python, R, SQL, and Power BI. Passionate about transforming complex data into actionable, real-world impact.

## EDUCATION

### PhD — AI & Data Science (Sustainable Food Security & Climate Systems) 2025 – Present

Leeds Beckett University, United Kingdom

Research focus: Causal modelling, predictive modelling, and proactive AI for sustainable agriculture in Sub-Saharan Africa. Designing a five-layer AI decision support system connecting climate variability to policy recommendations.

### MSc Data Analytics and Technologies — Distinction 2024 – 2025

University of Greater Manchester, United Kingdom

Key areas: Machine Learning, Time Series Analysis, Data Mining, Cloud Data Engineering, Healthcare Analytics.

### BSc Statistics — Upper Division Honours 2022

Alex Ekwueme Federal University Ndufu Alike Ikwo, Nigeria

### SSCE 2017

Maranatha Secondary School Mba-Ano, Imo State, Nigeria

## CORE TECHNICAL SKILLS

### AI & Machine Learning:

Causal Modelling, Predictive Modelling, Machine Learning, Proactive AI Systems, Deep Learning, NLP

### Programming:

Python, R, SQL

### GIS & Remote Sensing:

Geospatial Analysis, Sentinel-1 SAR, Spatial Data Integration, Precision Agriculture

### Cloud & Engineering:

AWS Glue, Athena, ETL Pipelines

### Statistics:

Statistical Analysis, Regression Modelling, Correlation Analysis, Time Series Analysis, Forecasting

### AI Systems Dev:

FastAPI, Google Gemini AI, React/Vite, Hybrid Rule-Based Systems, Medical AI

### Data & BI Tools:

Power BI, Excel (Advanced), Tableau, SPSS, Jupyter Notebook, RStudio, Shiny

### Version Control:

Git, GitHub, GitHub Pages, Netlify

## KEY PROJECTS

### SmartSkann — AI Medical Scan Recommendation System

Skannr.com · Featured in Skannr's "In the Spotlight" Press Series

- Built Skannr's intelligent symptom-to-scan recommendation system using a hybrid of structured medical rules and Google Gemini AI.
- Integrated with Skannr's provider network — patients receive real scan options with pricing and instant booking.
- Designed with patient safety as priority; system handles complex clinical edge cases intelligently.
- Architecture: FastAPI backend, React/Vite frontend, rule-based engine, Gemini LLM module, hybrid decision layer.

### Proactive AI Decision Support System for Food Security (PhD Research)

Leeds Beckett University, UK

- Designing a five-layer AI architecture (Input → Processing → Analytical → Output → Decision) connecting climate variability and agricultural data to policy recommendations.
- Research focus on causal modelling, predictive modelling, and proactive AI — systems that recommend interventions, not just forecasts.
- Target regions: Sub-Saharan Africa with case studies in key agricultural countries.

### PGIS for Precision Rice Farming — Published Research

IJISRT, Vol. 11, Issue 5, May 2026 · DOI: 10.38124/ijisrt/26may211

- Co-authored research developing a Personalized Geospatial Information System integrating Sentinel-1 SAR remote sensing, GIS spatial analysis, and agricultural statistics.
- Provided site-specific recommendations for optimising rice production in Ebonyi State, Nigeria.
- Statistical analysis using Python (SciPy, Pandas); correlation and regression modelling across 13 LGAs.

### House Price Prediction — Machine Learning

MSc Project · Live at [chineduuzim.com](http://chineduuzim.com)

- Developed ML models (XGBoost, LSTM, SVR, Decision Tree) achieving ~15% RMSE improvement via hyperparameter tuning.
- Built interactive Shiny dashboard for real-time predictions; deployed publicly.

### AWS Data Engineering Pipeline

Academic Project

- Built ETL workflows using AWS Glue and queried large datasets with Athena.
- Demonstrated cloud data pipeline and warehouse querying skills.

## PROFESSIONAL EXPERIENCE

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### Administrative Assistant (Data Analysis Focus)

2024 – 2025

Eko Electricity Distribution Company, Nigeria

- Analysed electricity consumption data using R, improving demand forecasting accuracy.
- Automated recurring analytics reports, reducing manual workload by ~30%.
- Delivered insights supporting operational and distribution planning.

### EMID Data Recorder

2022 – 2023

National Primary Health Care Development Agency, Nigeria

- Managed immunisation datasets ensuring high data quality and validation.
- Supported public health decision-making through accurate reporting and data cleaning.

### Data Analyst

2021 – 2022

National Bureau of Statistics, Nigeria

- Analysed survey datasets using R, Excel, and Power BI; produced statistical reports for policymakers.
- Supported national data collection and quality assurance processes.

## PUBLICATIONS

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### Development of a Personalized Geographic Information System (PGIS) for Precision Agriculture to Optimise Rice Production and Increase Its Yield in Ebonyi State, Nigeria

Nwogbu P.C.; Ezza F.S.; **Chinedu Matthew Uzim**; Nwigwe S.; Ngwuta A.D.; Ofobuike O.N.

International Journal of Innovative Science and Research Technology (IJISRT) · Vol. 11, Issue 5, pp. 154–174 · May 2026

DOI: <https://doi.org/10.38124/ijisrt/26may211> | ResearchGate: [researchgate.net/profile/Chinedu-Uzim](https://www.researchgate.net/profile/Chinedu-Uzim)

## PRESS & FEATURES

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### Behind SmartSkan with Chinedu Uzim — Skannr.com "In the Spotlight" Series

Featured interview on developing SmartSkan — Skannr's AI-powered symptom-to-scan recommendation system. Covered AI innovation, patient safety, and system architecture. Available at: [skannr.com/in-the-spotlight](https://skannr.com/in-the-spotlight)

## CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

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- AWS Academy Graduate — Cloud Foundations
- AWS Academy Graduate — Data Engineering
- Business Analytics with Excel — Johns Hopkins University
- Introduction to Statistics — Stanford Online
- Aspire Institute Leadership Program
- Jobberman Soft Skills Training

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Work preference: Remote, Hybrid, On-site (UK, Europe, International) | Portfolio: [chineduuzim.com](https://chineduuzim.com) | GitHub: [github.com/Nedum25](https://github.com/Nedum25)