

# Anthony Ndegwa

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## Professional Summary

Data Scientist and AI/ML Engineer with hands-on experience in machine learning, statistical modeling, data engineering, and visualization. Skilled in building and deploying predictive models, generative AI applications, and end-to-end data pipelines. Proficient in Python, SQL, TensorFlow, PyTorch, Power BI, and Tableau. Adept at transforming complex datasets into actionable insights, optimizing business processes, and developing scalable AI-driven solutions. Passionate about driving innovation and business impact through data science, AI, and cloud-based analytics.

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## Core Competencies

- Machine Learning & AI (Supervised, Unsupervised, Generative AI, Computer Vision)
- Statistical Modeling & Forecasting (ARIMA, Regression, Time-Series)
- Data Preprocessing, ETL & Big Data (Python, Pandas, SQL, Spark, BigQuery)
- Cloud & MLOps (GCP, AWS, CI/CD, Model Deployment & Monitoring)
- Data Visualization & BI (Power BI, Tableau, Matplotlib, Seaborn)
- Database Management (PostgreSQL, MySQL, MongoDB)
- API Development & Integration (REST APIs, Flask, FastAPI)
- LLMs & GenAI (Integration and fine-tuning of large language models)

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## Professional Experience

### Data Analyst | Broadway Bakery Ltd - Thika, Kenya

*Sep 2024 — Present*

- Developed ML forecasting models (ARIMA, regression) to optimize raw material procurement and align production with demand.
- Built automated Power BI and Streamlit dashboards, enhancing decision-making with real-time insights on production, inventory, and delivery.

- Designed and implemented ETL pipelines integrating sales, supply chain, and manufacturing datasets.
- Collaborated cross-functionally to reduce rejected batches by 15% through predictive quality control analytics.
- Partnered with finance teams to track costs, integrating analytics insights into strategic pricing workflows.

### **Data Analyst Intern | Nunga Design - Nairobi, Kenya**

*Jun 2024 — Sep 2024*

- Built and deployed ML models (clustering, regression) to identify customer patterns and predict sales.
- Designed BI dashboards in Power BI and Tableau for forecasting and business insights.
- Assisted in data pipeline design, ensuring clean and reliable data for analytics.

### **Quality Assurance Analyst | QaceTech - Remote (Nigeria)**

*Jan 2024 — May 2024*

- Validated data-driven applications, ensuring ML models produced accurate outputs.
- Conducted API and backend testing, improving reliability of AI-driven services.

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## **Education**

### **Bachelor of Science in Statistics & Information Technology**

The Co-operative University of Kenya | 2021 — 2025

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## **Certifications**

- Artificial Intelligence — ALX
- Software Engineering — ALX
- Data Science with Python — Saylor Academy
- Digital Marketing — ACWICT
- Values-Centered Leadership — DePaul University
- Software Testing — Qace Academy

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### Key Projects

- Sales & Demand Forecasting — Developed time-series ARIMA models to forecast bakery product demand.
- Customer Churn Prediction — Applied logistic regression to predict customer retention.
- AI-Powered E-commerce Backend — Designed API-driven system with ML-based product recommendations.

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### Soft Skills

- Strong Analytical & Problem-Solving Skills
- Effective Communication with Technical & Non-Technical Stakeholders
- Detail-Oriented with Focus on Data Quality
- Agile Collaboration & Cross-Functional Teamwork
- Fast Learner, Adaptable to New Tools & Technologies