

OYELAYO SEYE DANIEL

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Portfolio: [Portfolio Seye](#)

PROFESSIONAL SUMMARY

Inventive and resourceful Data Professional with hands-on experience in analytics, machine learning, artificial intelligence, and highly proficient in computer vision with a strong grasp of deep learning. Strong background in data wrangling, visualisation, and statistical modelling with demonstrated success in solving complex challenges across food security, healthcare, and climate adaptation. Passionate about leveraging data-driven insights and intelligent systems to address real-world challenges in scalable and impactful ways.

EDUCATION

University of Ibadan, Ibadan, Nigeria

B.Agric. (Animal Science – Agricultural Biochemistry and Nutrition)

CGPA: 3.01/4.0

2019 – 2025

- Undergraduate Thesis: *Assessing the metabolic fate of calcium and phosphorus in hypocalcemic rats fed with organic and inorganic calcium dietary sources.*

Udacity – Nanodegree, Data Analysis (2022)

PowerLearning Academy, Nairobi, Kenya – Nanodegree, Software Engineering (Mern full stack)

AI Saturday, Lagos, Nigeria – Nanodegree, Data Science/Machine Learning (2023)

DataCamp, New York, USA – Nanodegree, Data Science (2024)

RESEARCH & PROJECT EXPERIENCE

Undergraduate Research Project – University of Ibadan (2025)

Assessing the metabolic fate of calcium and phosphorus in hypocalcemic rats fed with organic and inorganic calcium dietary sources

- Designed and conducted controlled feeding experiments on rat models.
- Analysed calcium and phosphorus absorption and retention under hypocalcemic conditions.
- Applied statistical methods to evaluate the effects of organic vs inorganic calcium diets.
- Findings provided insights into mineral nutrition with potential applications in livestock feeding strategies.

Scalable Malaria Diagnosis with Deep Learning – Hackathon Project, Lucana Malaria Challenge (2024)

- Designed a YOLOv8n-based object detection model for malaria parasite classification on blood slide images.
- Achieved precision of 80% and recall of 84%, enabling scalable diagnostics in low-resource healthcare settings.

Climate Risk Challenge (3rd Place, Sustainable Africa Initiative, AWS Credits Awarded) (2023)

- Built a drought/flood classification model using historical weather and soil moisture datasets with 85% accuracy.
- Integrated geospatial mapping to highlight vulnerable agricultural regions in Kebbi State, Nigeria.
- Project secured US\$50,000 AWS credits for the University of Ibadan.

Crop Recommendation System (2023)

- Developed machine learning models (Random Forest) to optimize crop selection based on soil NPK values, pH, and environmental factors.

- Attained 99% accuracy, delivering actionable recommendations to enhance yield and resource efficiency.

Bean Disease Classifier (Computer Vision Project) (2023)

- Built CNN-based classification model deployed via Streamlit to detect angular leaf spot and rust disease in beans.
- Enabled accurate plant disease diagnosis with confidence-based classification for smallholder farmers.

Independent Software Project – Feed Formulation Optimization Tool (2024)

- Developed a feed optimization software integrating nutritional constraints with predictive modeling.
- Tool was adopted by colleagues for their final year projects in Animal Science nutrition and feed formulation.

WORK EXPERIENCE

Data Scientist – Prognose.ai

Mar 2022 – Present

- Specialize in deep learning, predictive modeling, and computer vision applications.
- Build scalable AI models for commercial insights, contributing to efficiency in healthcare, agriculture, and food systems.

Food Safety Analyst – natnudO Foods, Ibadan, Nigeria

Dec 2021 – Mar 2022

- Applied statistical analysis to enhance quality control and risk assessment across food production chains.
- Conducted root cause analysis and recommended preventive measures to minimise safety risks.

TECHNICAL SKILLS & COMPETENCIES

- **Programming:** Python (Pandas, Numpy, Scikit-learn), SQL (MySQL, PostgreSQL), JavaScript
- **Machine Learning & AI:** Predictive Modelling, Neural Networks (CNN, MLP), Object Detection (YOLO), Recommendation Systems, Autonomous AI Agents
- **Frameworks/Tools:** TensorFlow, PyTorch, LangChain, SmolAgent, MLflow, Docker, CI/CD pipelines, React, Node.js, express.js, MongoDB
- **Data Visualisation:** Plotly, Dash, Seaborn, Matplotlib
- **Statistics:** Descriptive & Inferential Statistics (ANOVA, Chi-Square, T-tests)
- **Computer Vision:** OpenCV, YOLO-based deep learning pipelines
- **Web Development:** HTML, CSS, JavaScript

HONORS & ACHIEVEMENTS

- 3rd Place, Sustainable Africa Climate Risk Challenge, Amazon Web Services Award (US\$50,000 credits), 2023.
- Undergraduate research and feed formulation software adopted for peer projects in Animal Science.