

# David Olukolatimi

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## RESEARCH INTERESTS

**Core Areas:** Multimodal Representation Learning, Natural Language Processing, Computer Vision, Large Language Models (LLMs), Trustworthy and Responsible AI, Generative and Agentic AI.

**Applications:** Applied Machine Learning in Healthcare, Finance, and Education.

## EDUCATION

### University of Lagos

*B.Sc. in Computer Science*

Lagos, Nigeria

## PROFESSIONAL EXPERIENCE

### AXA Mansard

*Data Scientist*

Feb 2022 – Present

- Developed an AI-powered customer segmentation model for targeted marketing.
- Implemented a personalized recommendation system, increasing conversion rates.
- Built and deployed a Car Valuation API using ML models for automated pricing.
- Designed and deployed a fraud/anomaly detection system for health insurance claims, reducing false claims.

### Fiverr

*Freelance ML Engineer*

Oct 2020 – Feb 2022

- Developed CNN-based plant disease detection model.
- Built an audio emotion recognition system.
- Designed LSTM-based time series forecasting for stock prices.

### Hamoye

*Data Science Intern*

Jun 2020 – Dec 2020

- Designed ML pipelines for predictive modeling and automation.
- Built NLP classification models using transformers.
- Performed exploratory data analysis for business intelligence.

## RESEARCH EXPERIENCE & PROJECTS

### Undergraduate Thesis: Exploring Hyperparameters in Convolutional Neural Networks

- Investigated the effect of varying CNN hyperparameters (learning rate, batch size, optimizers) on model performance.
- Conducted systematic experiments on benchmark dataset, providing insights into training stability and generalization.
- Strengthened expertise in deep learning optimization, reproducible research, and empirical evaluation.

### Medical NLP Text Matching

- Developed a transformer-based text similarity system for medical terminology matching.
- Optimized inference pipeline, reducing processing time by 30%.
- Relevance: aligns with LLMs, multimodal learning, and trustworthy healthcare AI.

### AI-powered Customer Renewal Prediction

- Led a cross-functional team to design predictive models for customer renewals.
- Used ensemble learning, improving accuracy by 15%.

### Multimodal Applications

- Integrated computer vision (YOLO, CNNs) with tabular/structured data for predictive tasks.
- Explored responsible AI methods to improve model reliability.

### Knowledge Dissemination

Medium

- Published technical AI/ML articles explaining NLP, CV, and deep learning concepts.

## ACHIEVEMENTS

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- Completed undergraduate research thesis on CNN hyperparameter optimization, providing empirical insights into deep learning performance.
- Led AI projects bridging industry applications with academic research.
- Published technical writing on AI/ML with international readership.
- Recognized for building scalable ML systems in finance and healthcare.

## TECHNICAL SKILLS

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- **Languages:** Python, SQL, Java, JavaScript
- **ML Frameworks:** TensorFlow, PyTorch, Scikit-learn
- **Big Data Tools:** Spark, Hadoop, BigQuery
- **Cloud DevOps:** Google Cloud, Docker, Kubernetes, CI/CD
- **NLP:** Transformers, SpaCy, NLTK, Hugging Face
- **Computer Vision:** OpenCV, YOLO, FastAI