

# Ikechukwu Prosper

## Artificial Intelligence Expert & Machine Learning Engineer

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### PROFESSIONAL SUMMARY

Results-driven Artificial Intelligence Expert with 8+ years of experience designing, developing, and deploying cutting-edge machine learning systems and AI-powered solutions. Proven track record in natural language processing, computer vision, deep learning, and large language model (LLM) fine-tuning. Passionate about transforming complex data into actionable intelligence and building AI systems that drive measurable business impact. Adept at leading cross-functional teams and communicating technical insights to non-technical stakeholders.

### CORE COMPETENCIES

<b>Machine Learning &amp; Deep Learning</b>	Python, TensorFlow, PyTorch, Keras, Scikit-learn
<b>Natural Language Processing (NLP)</b>	LLMs, Transformers, BERT, GPT fine-tuning, LangChain
<b>Computer Vision</b>	OpenCV, YOLO, CNNs, Image Segmentation, Object Detection
<b>MLOps &amp; Cloud AI</b>	AWS SageMaker, GCP Vertex AI, Azure ML, Docker, Kubernetes
<b>Data Engineering</b>	SQL, Spark, Pandas, NumPy, Airflow, ETL Pipelines
<b>Research &amp; Innovation</b>	Reinforcement Learning, Generative AI, RAG, AI Ethics

### PROFESSIONAL EXPERIENCE

**Senior AI/ML Engineer** Jan 2021 – Present

*TechNova AI Solutions — Lagos, Nigeria*

- Architected and deployed a production-grade NLP pipeline processing 10M+ customer queries/month, reducing manual support workload by 65%.
- Led the fine-tuning of large language models (LLaMA 2, GPT-4) for domain-specific document analysis, achieving 91% accuracy on internal benchmarks.
- Built end-to-end MLOps pipelines using Kubernetes and AWS SageMaker, cutting model deployment time from 3 weeks to 2 days.
- Mentored a team of 6 junior ML engineers, conducting bi-weekly code reviews and knowledge-sharing sessions.

**Machine Learning Engineer** Mar 2018 – Dec 2020

*DataSphere Technologies — Abuja, Nigeria*

- Developed a computer vision system for real-time defect detection on manufacturing lines, improving QA efficiency by 48%.
- Designed and trained recommendation engine models using collaborative filtering, increasing e-commerce click-through rates by 32%.
- Implemented A/B testing frameworks and statistical hypothesis testing for model performance evaluation across 15+ ML experiments.

**Junior Data Scientist** Jun 2016 – Feb 2018

*Insight Analytics Ltd — Lagos, Nigeria*

- Built predictive models for customer churn analysis, enabling targeted retention campaigns that reduced churn by 22%.
- Conducted exploratory data analysis and visualization for stakeholders using Python (Pandas, Matplotlib, Seaborn).
- Automated data cleaning and feature engineering pipelines, reducing preprocessing time by 70%.

## EDUCATION

### M.Sc. Computer Science (AI Specialisation)

*University of Lagos, Nigeria*

2014 – 2016

### B.Sc. Computer Science (First Class Honours)

*University of Nigeria, Nsukka*

2010 – 2014

## CERTIFICATIONS

- Google Professional Machine Learning Engineer (2023)
- AWS Certified Machine Learning – Specialty (2022)
- Deep Learning Specialisation – deeplearning.ai / Coursera (2020)
- TensorFlow Developer Certificate – Google (2021)
- Microsoft Certified: Azure AI Engineer Associate (2022)

## KEY PROJECTS

**AfriVoice NLP Engine:** Built a multilingual NLP model supporting 6 African languages using transfer learning and custom tokenizers; deployed as a REST API serving 50,000+ daily requests.

**Real-Time Fraud Detection System:** Designed a graph neural network model for financial fraud detection achieving 97.3% precision, integrated into a fintech platform processing \$2M+ daily transactions.

**AI-Powered Medical Imaging Tool:** Co-developed a CNN-based tool for chest X-ray classification (pneumonia vs. normal) with 94% AUC, presented at a national health-tech conference.

## PUBLICATIONS & TALKS

- Prosper, I. (2023). 'Low-Resource NLP for African Languages Using Adapter Modules.' Journal of Artificial Intelligence Research.
- Speaker, AI Summit West Africa 2022 — 'Responsible AI Deployment in Emerging Markets.'
- Co-author, 'Benchmarking Vision Transformers on Industrial Defect Detection Datasets.' arXiv:2302.XXXXX.

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*References available upon request | Open to remote & relocation opportunities*