

# PATRICK ATTANKURUGU

## AI/ML Engineer

ADDRESS: Accra, Ghana | EMAIL: [patricka.azuma@gmail.com](mailto:patricka.azuma@gmail.com) | PHONE: (+233)545014267

LINKEDIN: <http://www.linkedin.com/in/patrick-ai-africa/> | GITHUB: <https://github.com/PatrickAttankurugu>

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### PROFESSIONAL SUMMARY

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Senior AI/ML Engineer with 4+ years of professional experience building production-grade intelligent systems for fintech, security, digital identity verification/management, and surveillance applications. Expertise in computer vision, fraud detection, and modern AI architectures.

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### TECHNICAL SKILLS

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- **Languages:** Python (PyTorch, TensorFlow, OpenCV), SQL, JavaScript
- **Frameworks:** FastAPI, React, ReAct, LangChain, LangGraph, LangSmith
- **AI/ML:** Computer Vision (YOLO, Face Recognition), NLP (LLMs, Transformers), Fraud Detection, MLOps
- **Cloud/Infrastructure:** AWS, Docker, Git, PostgreSQL, MongoDB, Redis, Kafka
- **Specializations:** Identity Verification, Document Verification, Deepfake Detection, Real-time Processing, Credit Scoring, API Development, KYC/KYB/KYE

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### EDUCATION

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University of Ghana, Legon | 2018 - 2022

Bachelor of Science in Computer Science

- **Final Year Project:** Crowd monitoring and surveillance using deep neural networks

Professional Development:

- **Aspire Leaders Program** - Aspire Institute (Harvard) | August 2024 - November 2024
- **Entrepreneurial Studies** - Queen's University (Canada) | January 2024 - August 2024
- **Fine-tuning Large Language Models** - Professional Certification | 2023
- **Multi AI Agent Systems with CrewAI** - Advanced Certification | 2024

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### WORK EXPERIENCE

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Agregar Tech – Senior AI/ML & Backend Engineer | August 2024 - Present

- **KYC/KYB Platform:** Leading the development of AI system for KYC/KYB/KYE applications
- **Fraud Prevention:** Built deepfake detection systems
- **Technical Leadership:** Deployed ML pipelines used by several clients, promoted twice within a year

Ghana Digital Centres Limited - AI Developer | Nov 2022 - July 2024

- **Predictive Security:** Built ML surveillance platform for proactive crime prevention
- **Real-time Processing:** Developed anomaly detection with <200ms latency and 92% accuracy

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### REFERENCES

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Available upon request