

Kwabena Baah-Boakye

IBM Certified Data Scientist / Microsoft Certified AI Professional

Summary of Qualifications

- Leading cost modeling and data automation initiatives, applying statistical modeling and optimization techniques to business problems.
- Strong hands-on experience with Python, SQL, Spark, Alteryx, Tableau, and Power BI, building data pipelines and ETL workflows.
- Experience delivering end-to-end analytics and ML solutions, from experimentation to production deployment, using structured and unstructured data.
- Proven ability to partner cross-functionally with risk, marketing, product, and technology stakeholders.
- IBM Certified Data Analyst, IBM Certified Data Scientist, Microsoft Certified AI Professional.

Key Competencies

Machine Learning & Advanced Analytics:	Regression, Classification, Forecasting, Clustering, Recommendation Systems, Statistical Modeling
Artificial Intelligence and GenAI:	Machine Learning, NLP, Generative AI, Retrieval-Augmented Generation (RAG), Agentic AI, Causal Inference, Bayesian Methods
Data Science & Engineering Toolkits:	Python (pandas, NumPy, scikit-learn, PyTorch), SQL, Spark, APIs, Tableau, Power BI
Data Pipelines & Automation:	ETL Pipelines, Alteryx, Power Automate, Selenium, Workflow Automation
AI Governance & Strategy:	AI Governance, Model Risk & Controls, Responsible AI, AI Strategy and ROI Enablement
Collaboration & Delivery:	Agile, Git / GitHub, Jira, Cross-functional Stakeholder Engagement
Cloud & Platforms:	Azure (Certified), AWS, GCP

AI Projects

Orphanage Research & Recommendation Platform

- Designed the system architecture end-to-end for an AI-driven decision-support platform that automates research, analysis, and summarization to evaluate and recommend orphanages

MCP Powered Customer Support Chatbot

- Delivered end-to-end a GenAI-powered customer support system, incorporating agentic workflows, guardrails, and evaluation pipelines to ensure robust, production-ready performance

Clinical Documentation & NLP Automation

- Designed and built an end-to-end AI system leveraging speech-to-text, NLP, and summarization models, with structured outputs and validation logic to support robust clinical workflows.

Model Fine-Tuning & Machine Learning Systems

- Designed, trained, and evaluated machine learning and LLM-based models, including fine-tuning and recommendation systems, with focus on model performance, evaluation, and robustness.

Work Experience

Risk Data Analyst

Dec 2015 – Aug 2017

Guaranty Trust Bank Limited | Accra, Ghana

- Automated risk management report generation in Microsoft Excel using VBA and Macros, reducing reporting time from days to minutes.
- Utilized SQL to query databases and create aggregated datasets by integrating data from various sources.
- Designed dashboards and reports for bank-wide, departmental, and individual-level insights into business performance.

Business Intelligence Analyst

Dec 2013 – Dec 2015

Capital Bank Limited | Accra, Ghana

- Provided insights and recommendations for strategic problem-solving, including product discovery and profit maximization.
- Extracted key insights from data using SQL, visualized findings with Tableau, and conveyed them in a visual format.

Education

Data Analyst Program

Sept 2022

NPower Canada | Toronto, Ontario

MSc Development Finance *Recipient of Best Graduate Award- Valedictorian

2018

University of Ghana, Legon

BSc Actuarial Science

2013

University of Cape Coast, Ghana

AI & Machine Learning Training

LLM Engineering & Generative AI — Udemy

Mastery of large language models, prompt design, embeddings, RAG, fine-tuning, and production-oriented workflows to support LLM-based applications and decision support.

Agentic AI Engineering — Udemy

Practical engineering of agentic AI systems, including autonomous agents, orchestration workflows, tool integration, and robustness practices for production-oriented AI applications.

AI Strategy, Governance and Leadership — Udemy

Strategic and business-impact understanding of Generative AI and LLMs, including enterprise use cases, governance considerations, risk mitigation, and ROI-driven deployment strategies.

Deployment of Generative and Agentic AI to Production — Udemy

Applied training in deploying Generative and Agentic AI systems in scalable environments, emphasizing end-to-end architecture, monitoring, and operational controls.

Certifications

Vector Institute Bootcamp on Multimodal AI	October 2025
Vector Institute Bootcamp on Agentic AI	September 2025
Vector Institute Bootcamps on Green AI and RAG	March 2025
Microsoft Azure AI Fundamentals Professional Certificate	October 2022
IBM Data Science Professional Certificate	October 2022
IBM Data Analyst Professional Certificate	Aug 2022
Microsoft Azure Fundamentals Professional Certificate	July 2022
Project Management Skills for Success	2019