

# Kwabena Baah-Boakye

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IBM Certified Data Scientist / Microsoft Certified AI Professional

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## 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

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

<b>Risk Data Analyst</b> Guaranty Trust Bank Limited   Accra, Ghana	<b>Dec 2015 – Aug 2017</b>
<ul style="list-style-type: none"><li>Automated risk management report generation in Microsoft Excel using VBA and Macros, reducing reporting time from days to minutes.</li><li>Utilized SQL to query databases and create aggregated datasets by integrating data from various sources.</li><li>Designed dashboards and reports for bank-wide, departmental, and individual-level insights into business performance.</li></ul>	

<b>Business Intelligence Analyst</b> Capital Bank Limited   Accra, Ghana	<b>Dec 2013 – Dec 2015</b>
<ul style="list-style-type: none"><li>Provided insights and recommendations for strategic problem-solving, including product discovery and profit maximization.</li><li>Extracted key insights from data using SQL, visualized findings with Tableau, and conveyed them in a visual format.</li></ul>	

## Education

<b>Data Analyst Program</b> NPower Canada   Toronto, Ontario	<b>Sept 2022</b>
<b>MSc Development Finance</b> *Recipient of Best Graduate Award- Valedictorian University of Ghana, Legon	<b>2018</b>
<b>BSc Actuarial Science</b> University of Cape Coast, Ghana	<b>2013</b>

## AI & Machine Learning Training

<b>LLM Engineering &amp; Generative AI — Udemy</b> Mastery of large language models, prompt design, embeddings, RAG, fine-tuning, and production-oriented workflows to support LLM-based applications and decision support.
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<b>Agentic AI Engineering — Udemy</b> Practical engineering of agentic AI systems, including autonomous agents, orchestration workflows, tool integration, and robustness practices for production-oriented AI applications.
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<b>AI Strategy, Governance and Leadership — Udemy</b> Strategic and business-impact understanding of Generative AI and LLMs, including enterprise use cases, governance considerations, risk mitigation, and ROI-driven deployment strategies.
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<b>Deployment of Generative and Agentic AI to Production — Udemy</b> Applied training in deploying Generative and Agentic AI systems in scalable environments, emphasizing end-to-end architecture, monitoring, and operational controls.
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## Certifications

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