

# RICHARD MENSAH

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AI- and systems-focused professional with more than 3 years' experience delivering data-driven solutions across businesses supporting startups, corporate bodies, and climate tech. Proven ability to lead projects, deploy production-ready systems, and translate business needs into scalable technical solutions. Currently building and deploying machine learning systems, with foundational knowledge in full-stack development, while leading multi-stakeholder data projects. Also, combines strong technical execution with operational leadership.

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## SKILLS AND INTERESTS

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- **Programming languages:** Python, TypeScript, JavaScript
- **Worked with:** Next.js, Git, CI/CD (GitHub Actions), Node.js, AWS, MySQL, PostgreSQL, SQLite, MongoDB, Tailwind, Power BI, Excel (Advanced), Streamlit, FastAPI, Docker
- **Data & AI:** Machine Learning, Data Science, Full Stack Web Development, NLP (basic), Data Visualisation,

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## ENGINEERING EXPERIENCE

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**Johnsons HL**, North Wales, UK

April 2026 - Present

*Junior Data Science & Machine Learning Engineer*

- Assist in guiding a multidisciplinary team of developers by mentoring, conducting code reviews, and fostering a collaborative environment to enhance productivity.
- Defining the technical roadmap, selecting appropriate technologies, and ensuring the implementation of best practices in software development and architecture.
- Assist in deploying machine learning systems into operational environments and ensure data pipelines.
- Integrate AI solutions into business workflows with cross-functional teams, support system testing, monitoring, and perform feature engineering to optimise models

**GOFAIR-TRADE**, Bangor University, UK

March 2025 - May 2026

**Data Project Lead**

- Develop and maintain content management systems (CMS) and web applications for GoFairTrade Bangor.
- Led delivery of a data-driven system supporting Bangor University's Fairtrade and sustainability initiatives, contributing to the institution's Fairtrade University Award (2025)
- Designed and implemented data collection and reporting frameworks to support campus-wide ethical trade and sustainability campaigns
- Analysed datasets related to Fairtrade consumption, engagement, and supply chain awareness across university activities
- Coordinated a team of student contributors and stakeholders, supporting engagement across multiple campaigns, events, and outreach programmes
- Supported initiatives involving 20+ student volunteers per campaign session, contributing to awareness and participation in Fairtrade activities
- Translated stakeholder requirements into scalable technical solutions, improving visibility of Fairtrade impact across campus
- Ensured data quality, validation, and consistency across reporting outputs aligned with university sustainability goals

**Centre for Green Growth (GIZ Green Project)**, Accra, Ghana

January 2024 - January 2025

**Data & Sustainability Analyst**

- Implemented data systems for monitoring environmental and sustainability metrics
- Analysed carbon emissions datasets to generate actionable insights
- Built dashboards and reporting frameworks for policy and project stakeholders
- Supported alignment of data solutions with sustainability goals on climate, carbon, and green jobs training in Accra, Kumasi, and Tamale.
- Assisted in a climate resilience partnership project with the Korle-Klottey Municipal Assembly to tackle the frequent flooding issues at Accra Circle and its surroundings.

**Centre for Analytics Services, Accra, Ghana**

September 2023 - January 2025

**Director of Operations & Head of Data Science**

- Led delivery of 5+ data and analytics projects from requirements gathering to deployment, ensuring alignment with client business objectives
- Managed a team of 4 - 6 analysts and developers, coordinating tasks, timelines, and deliverables with 100% on-time project delivery
- Designed and implemented data processing workflows, reducing data preparation time by 30%
- Developed and deployed predictive models that improved decision-making accuracy across client use cases
- Collaborated with stakeholders to translate business needs into technical specifications and system requirements
- Built dashboards and reporting systems used by stakeholders to monitor performance and key metrics
- Supported deployment of applications using Streamlit, FastAPI, and cloud platforms, improving accessibility of data tools
- Ensured data quality and validation processes, reducing reporting errors and inconsistencies
- Delivered training programmes for 30+ junior analysts, increasing team productivity and technical capability

**ECOTIVA, (Remote)**

2021 - 2023

**Head of Analytics, Machine Learning & AI**

- Led and coordinated all data-related processes for the startup's carbon accounting software, ensuring alignment with business goals.
- Conducted in-depth research on global carbon emissions, focusing on adapting insights to the African carbon market.
- Scraped, cleaned, and created visualizations and dashboards to track carbon emission trends and informed strategic decisions.
- Designed and developed a carbon accounting web app using Python and Streamlit, delivering a prototype hosted on Hugging Face for testing and user engagement

**EDUCATION**

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- **University of the People, USA**  
BSc Computer Science 04/2026 - 20230
- **Bangor University, Wales, United Kingdom**  
MSC Artificial Intelligence and Data Science 01/2025 - 02/2026
- **African Leadership Group (Alx), Accra, Ghana**  
Data Science 3/2023 - 7/2024
- **Indira Gandhi National Open University, India (Uncompleted)**  
M.A. Psychology (Industrial & Organisational Psychology) 12/2022 - 12/2024
- **Azubi Africa, Accra, Ghana**  
Data Analytics Professional 8/2022 - 7/2023
- **University Of Education, Winneba, Winneba, Ghana**  
Bachelor of Education (SpeD and Geography) 8/ 2017 - 9/ 2021

**REFEREES**

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Available upon request