

# Ofori Kwabena Emmanuel

## Data Scientist and STEM Educator

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### PROFILE

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I am Emmanuel Ofori, a passionate STEM educator and an aspiring data scientist with a growing specialization in digital education and data-driven problem solving. My journey began in the classroom, where I taught science and mathematics, inspiring curiosity and creativity in learners while finding innovative ways to use improvised materials and digital tools to enhance understanding.

Currently, I am pursuing Data Science with ALX, building strong foundations in Python, data analysis, and visualization. My teaching background combined with my technical training allows me to uniquely bridge education and technology, designing solutions that make learning more engaging and data-informed.

I have been recognized for leadership and impact, serving as the Secretary of Pinido Hall at Presbyterian College of Education and leading a GSTEP competition during National Service through the DreamOval Foundation. I was also named Best-Performing Mentee, a testament to my commitment to excellence and growth.

Looking ahead, I am motivated to apply my teaching, digital education, and data science skills to develop innovative solutions that improve learning outcomes and empower communities. I see myself as a lifelong learner, dedicated to making a meaningful difference by merging education, technology, and data for sustainable impact.

### PROFESSIONAL EXPERIENCE

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| <b>STEM facilitator</b> , <i>Mizpah.D Academy</i>  | 01/2025 – Present<br>Accra                 |
| <ul style="list-style-type: none"><li>Teach Science &amp; STEM (Basic 7–9), preparing students for BECE.</li><li>Designed lesson notes, quizzes, and experiments aligned with GES curriculum.</li><li>Integrated digital tools to improve student engagement.</li></ul>  |  |
| <b>Freelance Action Researcher</b> , <i>Independent</i>  | 01/2024 – Present<br>Accra, Ghana (Online) |
| <ul style="list-style-type: none"><li>Designed and conducted small-scale action research projects focused on improving STEM education through innovative teaching methods and improvised learning materials.</li><li>Collected, analyzed, and interpreted data to evaluate the effectiveness of teaching strategies, providing evidence-based recommendations for improved student outcomes.</li><li>Collaborated with educators and learners to identify classroom challenges and co-develop practical, sustainable solutions.</li><li>Produced well-structured reports and academic papers, demonstrating strong research, writing, and analytical skills.</li></ul> |  |
| <b>Science Facilitator - National Service</b> , <i>Suhum Methodist JHS B</i>   | 03/2024 – 02/2025<br>Suhum, Ghana          |
| <ul style="list-style-type: none"><li>Led team of students to GSTEP STEM competition with DreamOval Foundation.</li><li>Awarded Best-Performing Service Personnel for innovative teaching and leadership.</li></ul>  |  |

## EDUCATION

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**Data Science, ALX Africa** 06/2025 – Present  
Accra, Ghana  
Developing practical skills in Python, SQL, and data visualization to analyze and interpret large datasets.  
Learning statistical methods, machine learning fundamentals, and problem-solving with real-world datasets.  
Applying data science techniques to address global challenges (GCGOs) through hands-on projects.  
Committing 30–40 hours weekly to structured coursework, peer collaboration, and milestone-based assessments.

**B.Ed Science and Mathematics Education (JHS Specialism) - First Class Honors,** 2019 – 2023  
*Presbyterian College of Education, Akropong* Akropong, Ghana

- Scholarship: MasterCard Foundation Scholar
- Relevant Coursework: Statistics, Foundations of Education, Introduction to Science, Curriculum Studies, Pedagogy in Education, Inclusive Education, Data Analysis, Action Research.

**Agriculture Science, St. John's Grammar School** 2015 – 2018

## SKILLS

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**Data Science & Analytics:** — Amateur

- Python, SQL, data cleaning, statistical analysis, machine learning fundamentals, and data visualization.

**Research & Writing** — Proficient

- Academic research, project report writing, article development, and clear scientific communication.

**Soft Skills** — Proficient  
Leadership, problem-solving, adaptability, time management, and effective communication.

**Digital Education & Teaching** — Proficient

- STEM teaching, curriculum development, lesson planning, and use of digital tools for learning.

**Technology Tools** — Proficient

- Google Workspace (Docs, Sheets, Slides), Microsoft Office Suite, and online collaboration platforms.

## AWARDS & RECOGNITION

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**Certificate of Appreciation: Secretary, Pinido Hall & SRC Member,** 11/2023  
*Presbyterian College of Education*

**Digital Tools for Teaching & Information and Media Literacy,** 10/05/2023  
*(Wikipedia Foundation & British Council).*

**STEM Outreach Leader, noted for creative, low-cost teaching solutions.**

- Awarded through demonstrated school and community leadership and service

## ENTREPRENEURIAL & LEADERSHIP EXPERIENCE

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**BRIDGE-In Agriculture,** *Participated and completed the Entrepreneurship for Individuals and SMEs course under the BRIDGE-In Agriculture Training Program.* 05/2025 – 05/2025  
Accra, Ghana

**Presbyterian College of Education, Akropong, Class Secretary** 2020 – 2023  
KNUST

- Acted as the primary communication liaison between faculty and a class of over 60 students, enhancing information dissemination and academic engagement.

## RESEARCH & PROJECTS

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### Undergraduate Research Thesis

- Using Improvised Materials to Enhance STEM Learning
- Findings promoted the adoption of improvised materials in STEM teaching in resource-constrained environments and performance in STEM related subjects and hands-on practice.

2022 – 2023

Presbyterian College of  
Education, Akropong