


AGYEMANG DENNIS AKPLEHEY

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 [Dennis Agyemang](#)

 [Bradennis](#)

 Tema, Ghana.

PROFILE

A motivated and detail-oriented Computer Science graduate with interests in artificial intelligence, blockchain technology, and data-driven innovation. Experienced in research on AI for higher education assessments and in developing web solutions for community needs. Proficient in machine learning, data analysis, and software development. Seeking to apply my skills to create practical solutions that improve education, healthcare, and economic opportunities.

EDUCATION

- ❖ BSc. Computer Science (Jan 2021 to Nov 2024) – *Relevant courses:* Information Systems, Artificial Intelligence, Database Concepts and Technologies, Web Development, Computer Networking.
[Kwame Nkrumah University of Science and Technology \(KNUST\)](#)
- ❖ General Science: West African Senior School Certificate Examination (WASSCE) (Aug 2016 to Jun 2019) – *Elective courses:* Mathematics, Chemistry, Physics, ICT.
[Ada Senior High School \(ADASCO\)](#)

PUBLICATIONS

- ❖ Real-Time Gesture Recognition for Ghanaian Sign Language using Long Short Term Memory and Pose Landmarks. (*Paper under review at the Ghana Journal of Technology*)

RELEVANT PROJECTS

- ❖ Hybrid AI-Blockchain framework for proactive academic fraud detection (*project ongoing*)
- ❖ Integrated Student Wellness System (**UniCare**) – *Developed a MERN-based platform unifying medical consultations, counselling, and resource sharing for students at KNUST.*

CONFERENCES AND WORKSHOPS

- ❖ IEEE International Conference on Advanced Science and Technology (*IEEE ICAST 2024 - Ghana*)
- ❖ IEE Region 8 Africa Student & Young Professional Congress (IEEE R8 ASYPC ACCRA-2025)

ACHIEVEMENTS AND AWARDS

- ❖ Certificate of Participation – Pre-Certified Ethical Hacking Program (Active Directory Fundamentals) 2021: educ8africa;
- ❖ IBM Data Science Professional Certificate (Tools for Data Science) 2024.
- ❖ Certificate of Honor by the School as the best Student in Chemistry and Mathematics 2018: ADASCO;

PROFESSIONAL BODIES

- ❖ International Association of Engineers (IAENG)
- ❖ Internet Society Ghana

WORK EXPERIENCE

National Service - Teaching and Research Assistant, University of Mines and Technology (UMaT), Ghana

October 2024 – September 2025

- ❖ **Supported teaching and supervision** in Robotics, AI, Data Science, Programming, and Computer Graphics, contributing to student learning across key computing courses.
- ❖ **Assisted in research design, data analysis, and academic writing** across multiple computing disciplines, strengthening departmental research activities.
- ❖ **Facilitated lab sessions, tutorials, and student project guidance**, helping students apply theoretical knowledge to practical problem-solving.
- ❖ **Contributed to curriculum development and academic activities**, ensuring course content remained relevant to emerging trends in technology.

Internship - Monitoring and Evaluation Department, Food and Drugs Authority (FDA), Ghana

October 1, 2023 – November 16, 2023

- ❖ **Reviewed departmental reports for accuracy and consistency**, reducing reporting errors by 20% and improving the reliability of management decisions.
- ❖ **Supported budget planning and activity tracking for M&E functions**, improving financial oversight and helping align expenditures with project goals.
- ❖ **Produced KPI-based performance reports** that informed quarterly reviews, strengthening accountability and supporting **evidence-based decision-making**.

CORE COMPETENCIES

TECHNICAL SKILLS:

- ❖ Familiar with Blockchain concepts (Ethereum, Smart Contracts, DApps)
- ❖ Web Development (Fullstack): HTML5, CSS3, JavaScript, React.js, Node.js, firebase, mongoDB
- ❖ UI/UX Designing: Figma
- ❖ Data Science & Machine Learning (Python, SQL, Pandas, Tensorflow, Scikit-Learn, Power Bi, Excel)
- ❖ Proficient in Git & GitHub, Microsoft Office, Adobe Photoshop
- ❖ Programming: Python, C++, Java

PROFESSIONAL SKILLS:

- ❖ Team Collaboration
- ❖ Problem-Solving
- ❖ Proficiency in Remote Work Tools (Zoom, Google Meet, MS Teams)

LEADERSHIP

- ❖ National Science and Maths Quiz Team Leader, ADASCO (Aug 2018- July 2019)
- ❖ President at The Divine Healer's Students and Associates, (DIHESA) Knust (July 2023- July 2024)

REFERENCES

Engr. Dr. Ezekiel Mensah Martey

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Tarkwa, Ghana

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