

Randy Kofi Ansah

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CAREER PROFILE

Randy Kofi Ansah is an innovative, detail-oriented, dedicated individual with a strong passion for artificial intelligence and robotics. He is experienced in writing codes and Algorithms, building machine learning and deep learning applications in Python to create impactful solutions, and has a comprehensive knowledge of artificial intelligence, machine learning and deep learning concepts and integrating artificial intelligence with smart systems.

EDUCATION

University of Energy and Natural Resources
Region Program: BSc Electrical and Electronic Engineering

Sunyani, Bono
Sep 2018 -Oct 2022

Aggrey Memorial A.M.E Zion Senior High School
Program: General Science

Cape Coast, Central Region
Sep 2014-May 2017

CERTIFICATES/ ACHIEVEMENTS / AWARDS

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| • Student Inventor of the Year | 2022 |
| • Intel Edge AI Certification, Intel | Dec 2022-Dec 2023 |
| • TensorFlow : Data and Deployment Specialization, Deeplearning.AI, Coursera | Apr 2023 |
| • Generative Adversarial Networks Specialization, Deeplearning.AI, Coursera | Apr 2023 |
| • Applied Data Science with Python Specialization, University of Michigan, Coursera | Mar 2023 |
| • AI for Medicine Specialization, Coursera | Feb 2023 |
| • Browser-based Models with Tensorflow.js, Coursera | Nov 2022 |
| • Deep Learning Specialization, Coursera | Oct 2022 |
| • Device-based Models with Tensor Flow Lite, Coursera | Sep 2022 |
| • Machine learning Specialization, Coursera | Aug 2022 |
| • Feature Engineering , Kaggle | Jul 2022 |
| • Intro to AI Ethics , Kaggle | Jul 2022 |
| • Google Project Management Specialization, Google, Coursera | Jun 2022 |
| • Machine Learning Engineering for Production (MLOps), Coursera | May 2022 |
| • Engineering Project Management Specialization, RICE University, Coursera | Apr 2022 |
| • DeepLearning.AI TensorFlow Developer Professional Certificate , Coursera | Apr 2022 |
| • Top 14 Teams Finalist , Ocean Challenge, Team AQUA AI, Garage48 | Apr 2022 |
| • ROGER, AI Virtual Assistant Bot | Mar 2022 |
| • Computer Vision with Embedded Machine Learning , Coursera | Mar 2022 |
| • Hultprize Competition Semifinalist, UENR, Sunyani | Feb 2022 |
| • AI For Everyone, Coursera | Jan 2022 |
| • GMES Competition, Project Curiosity Team, 1st Runner Up | Nov 2021 |
| • Machine Learning Specialization, Coursera | Oct 2021 |
| • Enactus National Competition, Project Management team member, 2 nd Runner up | Sep 2021 |
| • Introduction to Packet Tracer English 1220 cga, CISCO | Jan 2021 |
| • Dean's Tech Challenge, 1 st Runner Up | |

PROJECTS

BRATCS: Brain Tumour Classification and Segmentation

Sept 2023

- Built a deep-learning brain tumor application to classify glioma, meningioma, and pituitary tumors and segment the tumor
- The project uses a National Institute of Health (NIH) dataset to do a multiclass classification, a Unet neural network architecture was used for segmenting the tumors.

HUGGING: Natural Language Processing App

Aug 2023

- Built, implemented, and maintained an NLP application that could perform some NLP tasks such as text summarization and generation using hugging face models.

OCEAN4AFRICA: Ocean Debris Classification and Segmentation

Apr 2022

- Built an application to segment, classify, and count the number of debris found in a satellite image
- Sentinel 2 satellite imagery was used in this project

WORK EXPERIENCE

Graduate Electrical Engineering Trainee, Electricity Company of Ghana, Accra

Nov 2022-Oct 2023

- Designed a technical submittal review checklist reducing time taken by 60%, while reducing review errors by 100%
- Increased the rate of defect detection during factory acceptance tests while ensuring compliance with contractual agreements and specifications
- Reduced rate of failure of equipment by 80% through preventive maintenance with the help of my colleagues
- Designed a maintenance report format making it more detailed and concise

Electrical Engineer Intern, Anointed Electrical Engineering Services Ltd, Accra

Oct 2021-Dec 2021

- Designed a 5v power system circuit, Astable, and nonstable circuits to control equipment reducing power consumption by 60%
- Assisted Electrical and electronic engineers in troubleshooting and repair of equipment

Electrical Engineer intern, Electricity Company of Ghana, Accra

May 2021-June 2021

- Assisted electrical engineers in the maintenance of electrical distribution equipment
- Document faults and maintenance events to be submitted to the head of maintenance

Information Technology Engineer Intern, White Cross Chemicals, Accra

Sep 2020-Dec 2020

- Sensitized users on best practices of using hardware peripherals and software applications reducing malfunctions by 50%
- Developed a stock management system to keep digital records of inventory.

Electrical Engineer intern, Electricity Company of Ghana, Accra

May 2020-June 2020

- Developed an inspection checklist and standard operating procedures reducing downtime of equipment by 50%.
- Assisted electrical field engineers in conducting load balancing tests reducing transformer damage and power surges.

Voluntary Teacher, Carobells Academy, Bortianor

May 2017-May 2018

- Increased the computer literacy rate of students by 90%.
- Encouraged creative thinking and motivated students by addressing individual strengths and weaknesses based on the standardized syllabus.

LEADERSHIP EXPERIENCE

Head, Mechatronics Interest Group, Institute of Mechanical Engineers, UENR

Oct 2021-Oct 2022

- Successfully organized the inception and inauguration of the mechatronics interest group on campus
- Managed a team of over 50 students to learn and equip themselves with skills revolving around robotics, embedded systems, and IoT.

Vice President, UENR Robotics Club, University of Energy and Natural Resources

Sep 2021-Oct 2022

- Chaired an 8-member committee vetting the club's executive aspirants.
- Successfully led a team from the club to win the National Energy Innovation Competition with the help of my colleagues
- Managed a team of over 50 students to learn and equip themselves with skills revolving around robotics, and the Internet of Things

Public Relations Officer, UENR Robotics Club, University of Energy and Natural Resources

May 2020-Sept2021

- Increased the club's social media followers by 400%.
- Improved information dissemination through social media and represented the club at interviews.

Campus Facilitator, IOT Network Hub, University of Energy and Natural Resources

Nov 2020-Jun 2021

- Successfully organized the inception and inauguration of the Hub in UENR.
- Managed a team of over 50 students to learn and equip themselves with skills revolving around the Internet of Things and embedded systems.

VOLUNTEER ACTIVITIES

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|---|-----------------|
| • Facilitator, Wan Hive Robotics Drive, UENR, Sunyani | Aug 2022 |
| • Facilitator, World Engineering Day, UENR, Sunyani | Mar 2022 |
| • Facilitator, STEM festival, UENR, Sunyani | Aug 2021 |
| • Facilitator, GHIE skills fair, UENR, Sunyani | Mar 2021 |
| • Facilitator, Electrical and Electronics Department Arduino Workshop, UENR, Sunyani | Jan 2021 |
| • Facilitator, Science fair, University of Energy and Natural Resources, UENR, Sunyani | Feb 2020 |

SKILLS AND INTEREST

- Skilled in Robotics, IoT, Artificial Intelligence, Machine Learning, and Deep-Learning, Computer Vision, Natural Language Processing.
- Proficient in Tensorflow, OpenCV, Pytorch, Scikit-learn
- Proficient in Python Programming, C++, MATLAB, SQL
- Skilled in Arduino and Raspberry Pi embedded systems
- Interest: Generative AI, Reinforcement Learning, Large Language Models, Computer Vision, AI Ethics, Explainable AI, Edge Computing, Big Data