Khadija Ewonye Yakubu

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A Data Science and Microsoft Automation Expert with 2 years of work experience. Skilled in data analysis, fine-tuning large language models, anomaly detection, and automating business processes using Microsoft AI tools. I also have experience in supervising interns and delivering academic support as a teaching assistant. Passionate about leveraging Machine learning AI tools and generative AI to improve clinical outcomes.

Education

African Institute for Mathematical Sciences

Msc.Mathematical Sciences(option: Big Data)

Mbour, Senegal

November 2020 - July 2022

Kwame Nkrumah University of Science and Technology

Bsc.Mathematics

Kumasi,Ghana

August 2015 - June 2019

Interests_

Natural Language Processing, LLM, Image processing, Computer Vision, Medical Imaging, Data Science

Research Experience _____

Anomaly detection in Network/Communication Systems

African Institute for Mathematical

Sciences

Utilizing state-of-the-art Machine/Deep learning techniques and combining it with existing anomaly detection techniques

Finetuning Large Language Models for a solution to answer questions asked about a company

AI4SENSE

Using Llama 2 and Mistrail models to fine-tune on dataset created and deploying on streamlit

Use and extend Microsoft AI Platform to automate business processes for companies by using pre-built models or custom models

AI4SENSE

Building chatbots with Microsoft tools to automate tasks related to Sharepoint, Teams, OneDrive, and Ouota Allocation.

Orthogonal Collocation of Finite Element

Kwame Nkrumah University of Science and Technology
Partial fulfilment of degree in Bachelor's degree

Teaching Experience _

African Institute for Mathematical Sciences

Mbour-Thies, Senegal

Industry case study tutor

September 2019 – August 2020

- This industry session is to deep dive into the world of cloud computing, specifically Microsoft Cloud. How the Power platform tools can be integrated into building solutions such as chatbots, dashboards, and apps, explore some use cases
- Overview of Azure AI, how to use the Azure Openai for generative AI purposes.
- Exploring the field of computer vision. Including image problems, applications and introductory labs.

Kwame Nkrumah University of Science and Technology, Department of Mathematics

Kumasi,Ghana

September 2019 - August 2020

Teaching Assistant

- Tutorial classes on Algebra and Introduction to Functional Analysis
- Organizing and conducting tutorials for students
- Marking and grading scripts
- · Preparing trial questions for students to try out
- Participating in departmental events including seminars

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Data Science/Automation Expert

Remote

Sensor6ty/Al4sense February 2022 - Date

- · Appling homography techniques in basketball for the accurate player and ball tracking to enhancing video analysis
- Automating tasks on Microsoft Teams, SharePoint, and One Drive, by building bots and flows using the Microsoft Power platform tools.
- · Working with teammates in labeling data, building models for Jersey, and players' video identification.
- Supervising interns on projects allocated

Supervisory

Sensor6ty/Al4sense Jun 2023-Date

 Supervising interns in projects; Building intelligent and Automated Accounting Systems, thus building a system that utilizes OCR and Microsoft Al tools to extract data from receipts and invoices for financial analysis. As well as employing the use of Large Language models to streamline the process.

· Al-powered Strategic Workforce Planning: skills gap analysis, external talent supply. This project aimed to bridge the gap between the acquired and required skills of an employee by taking into account their CVs and certification and utilizing the AI tools, Large Language Models, and Power Platform, to match employees to specific projects in the company.

Teaching Assistant Kumasi,Ghana

Kwame Nkrumah University of Science and Technology, Department of Mathematics

September 2019 - August 2020

- · Organizing and conducting tutorials for students
- · Marking and grading scripts
- · Preparing trial questions for students to try out
- Participating in departmental events including seminars

National Investment Bank, Tamale Main Branch

Tamale, Ghana

Customer services personnel/Intern

May 2018 - July 2018

GCB Bank, Tamale Hospital Road Branch

Customer services personnel/Intern

Tamale,Ghana

May 2017 - June 2017

GCB Bank, Tamale Market Branch, Ghana

Customer services personnel/Intern

Tamale, Ghana

June 2016 - July 2016

Skills

Programming Python (Pandas, NumPy, Scikit-learn, plotly, tensorflow. etc.), R, SQL, Hadoop, HTML/CSS.

Miscellaneous

Linux, Shell (Bash/Zsh), MTpX, Tableau, Microsoft Office, Cloud Computing (Microsoft Azure, Power Platform)

Soft Skills Teamwork, Problem-solving.

SCHOLARSHIPS/AWARDS

- Awarded a full scholarship by the African Institute for Mathematical Sciences to pursue a master's degree
- Ghana Tech Lab stipend from ABSA for Web Technology Trainees program
- · Ghana Data Science Summit 2022 (IndabaX Ghana) Travel Grant for in-person attendance and Poster presentation

Presentations and Publications

Poster

 Khadija Ewonye Yakubu, Presented:Ghana Data Science Summit, September 20, 2022, https://www.slideshare.net/kwadwoAmedi/posterewonyepdf

Certificates

- 2022 Microsoft Certified: Azure Al Engineer Associatelink
- 2022 Microsoft Certified: Azure Data Scientist Associate link
- 2023 DeepLearning.Al|Coursera Deep Learning Specialization link
- 2023 DeepLearningAI | Coursera AI for Medical Diagnosis link
- 2022 Microsoft Certified: Power Platform Fundamental link
- 2021 coursera-Neural Network and Deep Learning (Deep Learning A.I) link
- Data Visualization and Data Wrangling Masterclass with Python link • 2021

References

Dr. Arnaud Zinflou

Research Scientist/Lecturer Hydro Quebec/ AIMS Senegal zinflou.arnaud@hydroquebec.com

Dr. Abdul Nasah Soale

Assistant Professor of Statistics Department of Mathematics, Applied Mathematics, Statistics Case Western Reserve University abdul-nasah.soale@case.edu