

Josephine Adebayo

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Education

IT Programming for Artificial Intelligence

Nova Scotia Community College (Halifax, Nova Scotia)

September 2023 - Present

Bachelor of Mathematics

University of Ilorin (Ilorin, Kwara)

September 2015 – September 2019

SKILLS

Hard Skills Machine Learning, Deep Learning, Computer Vision, Data Cleaning, Data Preprocessing, Exploratory Data Analysis, Data Mining, Data Visualization, Probability

Frameworks PyTorch, Flask, React, TensorFlow, Keras, NumPy, Pandas, Matplotlib, Scikit-Learn

Programming Python, JavaScript, Matlab, SQL

WORK EXPERIENCE

Black Kids Code | Programming Instructor

Halifax, Nova Scotia (September 2023 - Present)

- Provide hands-on instruction and mentorship in coding fundamentals, algorithmic thinking, and problem-solving skills, catering to students of diverse backgrounds and skill levels
- Collaborate with fellow instructors and program coordinators to develop and refine lesson plans, to ensure alignment with educational goals and industry trends.
- Take feedback from Team Lead after every teaching session to discuss and brainstorm more effective teaching methods tailored to the students' needs.

Nova Scotia Health Authority | Communication Clerk

Halifax, Nova Scotia (January 2024 - Present)

- Facilitate effective communication within the healthcare facility by managing incoming calls, emails, and inquiries, ensuring prompt and accurate responses.
- Participate in training sessions to stay updated on communication protocols, privacy regulations, and healthcare industry standards, ensuring compliance and effective communication practices.
- Guarantee seamless coordination between departments and optimize overall operational efficiency within the healthcare facility.

DevCareer Africa | Frontend Engineer Intern

Ibadan, Nigeria (September 2022 - December 2022)

- Utilized modern frontend technologies such as **HTML**, **CSS**, and **JavaScript** to design and develop responsive user interfaces, ensuring cross-browser compatibility and optimal performance.
- Developed responsive user interfaces and interactive components using **React.js** to enhance user experience and ensure smooth navigation and functionality across web applications.
- Collaborated with team members using **GitHub's** issue tracking and project management features to address issues and implement improvements in the development workflow.
- Participated actively in daily standup meetings, contributing to discussions and consistently delivered on assigned tasks.

CIRD Solutions | Web Developer Intern

London, United Kingdom (January 2022 - June 2022)

- Leveraged CMS platforms such as Wix, WordPress, and Squarespace to design and develop dynamic websites, integrating custom features and functionalities to meet the specific requirements of various businesses.

- Implemented optimization techniques and SEO best practices and performance optimization, to improve the technical configuration of websites resulting in enhanced visibility and higher search engine rankings.
- Collaborated with team members to troubleshoot technical issues and implement solutions to foster a collaborative and innovative work environment.

Data Science Nigeria | Program Planner

Ilorin, Nigeria (August 2019 – August 2020)

- Pioneered program planning, development, and management to ensure community engagement and support as integral components of project success.
- Utilized project management tools and methodologies to streamline program workflows, ensure efficient coordination and execution of initiatives to meet organizational objectives.
- Employed data-driven approaches to assess program effectiveness, identify areas for improvement and drive continuous enhancement and innovation in educational initiatives.

PROJECTS

Digit App, Nova Scotia Community College

Neural Networks | September 2023 - December 2023

- Contributed significantly to the development of a Digit App, a web-based application built using **Python** and **StreamLit** utilizing a **Convolutional Neural Network (CNN)** for accurate handwritten digit prediction, as part of a collaborative team effort.
- Played a crucial role in training the neural network by optimizing parameters such as epochs and batch size to improve prediction accuracy and performance.
- Implemented a feedback mechanism within the application to capture misclassified images, which will be utilized for model retraining, to help in continuous improvement of prediction performance.

Housing Price Prediction Model

Personal Project | January 2024

- Applied XGBoost to predict housing prices using a housing dataset gotten from kaggle.
- Utilized the XGBoost DMatrix format to efficiently handle large datasets and optimize training speed.
- Evaluated the model's performance on the test set using metrics like Mean Squared Error (MSE), Mean Absolute Error (MAE), and R-squared (R^2).
- Generated a decision tree visualization to interpret the trained model's decision-making process.

CERTIFICATIONS

2023 **Google Data Analytics Certificate**, Coursera

2021 **Responsive Web Design**, freeCodeCamp

2021 **JavaScript Algorithms and Data Structures**, freeCodeCamp

2020 **Big Data Analytics with Microsoft Excel and Power BI**, Utiva

2020 **Data Visualization with Microsoft Power BI**, Data Science Nigeria