YINKA AKINDELE

Data Scientist

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EDUCATION

University of Lagos, Akoka-Lagos, Nigeria (2016 - 2021)

- B.Sc. (Honors), Electrical and Electronics Engineering.

Yaba College of Technology, Yaba-Lagos, Nigeria (2014 - 2016)

- Ordinary National Diploma (Distinction), Statistics.

TRAININGS AND CERTIFICATIONS

Data Science – ExploreAI Academy, South Africa – (Online) (2022)

- Successfully completed a Data Science Programme.

AWS Cloud Foundation. (2022)

- Successfully completed the AWS Cloud Foundations course.

Introduction to Deep Learning, Kaggle. (2024)

- Obtained a certificate of completion.

EXPERIENCE

Data Scientist Intern (Virtual), Explore AI Academy, Cape Town, South Africa (02/2020 – 08/2020)

- Successfully aggregated an uncleaned dataset with over 1 million data points from a PostgreSQL database using Python.
- Uncovered a concerning trend of underperformance among learners from low and middle-income backgrounds through the analysis and visualization of learners' performance using a Microsoft Power BI dashboard.

Tutor in Science, Bammy College (09/2018 – 12/2021)

- Tutored Physics, Mathematics, and Calculus to over 300 high school students.

PROJECTS

Improving news classification using Recurrent Neural Network (RNN) – (12/2023)

- Implemented preprocessing techniques such as lemmatization to simplify word variations.
- Applied recurrent neural network (RNN) models with varied architectures including increased layers, adjusted neurons, batch normalization, early stopping, dropout, and LSTM to optimize performance.
- Conducted comprehensive testing with recent news examples to evaluate model accuracy, identified misclassified instances, and provided insights into potential reasons for misclassification to inform further improvements.

Air Quality Index Prediction – (11/2023)

- Defined Air Quality Index (AQI) by combining the ground-truth concentrations of several gases obtained from sensors readings and created a Machine Learning model with a R-squared value of 83.03% to predict the Air Quality Index of a place using concentrations of several gases.

Electricity Shortfall Prediction – (07/2022)

- Collaborated with a geographically dispersed team of six professionals, utilizing Git version control system and Agile methodology to conduct thorough data cleaning and Exploratory Data Analysis (EDA) on a dataset comprising more than 8000 records of weather conditions in Spain from 2015 to 2017, using Python.
- Performed feature engineering on the data set and created models using different machine learning models to predict the shortfall between energy generated from renewable sources and non-renewable sources to RMSE value of 0.92.
- Improved the machine learning models using hyperparameter tuning to put my team at 8th position on Kaggle leaderboard.
- Built an API using Flask web server framework and deployed it on Amazon EC2 Instance.

Sentiment Analysis using Natural Language Processing (NLP) – (08/2022)

- Performed a comprehensive data preprocessing and exploratory data analysis (EDA) on climate change-related tweets, employing Natural Language Processing (NLP) techniques and trained a Machine Learning models that could classify the sentiment of a tweet on climate change to an accuracy of 86%.
- Created a web-based application using Streamlit and successfully deployed the application on an Amazon EC2 Instance, resulting in a 25% reduction in page load times, enhancing overall user experience.

Sensorless Speed Control of Induction Machine. – (01/2020 – 10/2021)

- Using Simulink, a Fuzzy Logic controller (AI) was designed for the control of speed of an Induction Machine.
- Achieved about 85% stability in the sensorless Speed control of an Induction motor, utilizing Fuzzy Logic controller that was implemented using MATLAB/Simulink.

TOOLS AND SKILLS

- **Programming Languages:** Python, MATLAB, C, C++, and Linux.
- **Data Analysis and Visualization:** Numpy, Pandas, Seaborn, SQL, Matplotlib, Microsoft Power BI, and Plotly.
- **Machine Learning/Deep Learning:** Scikit-Learn, Tensorflow, Keras, NLTK, Feature Engineering, Imblearn, Recurrent Neural Network (RNN), and Convolutional Neural Network.
- **Version control and Cloud Platforms:** Git, AWS and Microsoft Azure
- **Leadership:** Excellent interpersonal relationship, dependable, strategic decision making, critical reasoning, teamwork, visionary, and insightful.

PROFESSIONAL SOCIETIES

- Graduate Member, Nigeria Society of Engineers.