DOLAPO KINGSLEY ADEBO

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PROFILE SUMMARY

Certified Data Scientist and Machine Learning Engineer with a Distinction master's in data science. Specialized in data analysis, forecasting, and deploying cutting-edge ML models. Recognized for collaborative and adaptable qualities, I deliver impactful solutions. Eager to contribute analytical acumen and problem-solving skills in dynamic roles. Outside work, I enjoy playing video and board games with friends.

EXPERIENCE

Research Software Associate   May 2024 – *Present*
The Rosalind Franklin Institute, Oxford, United Kingdom.

Tech-stack: Python, PyTorch, Scikit-learn, Linux, Napari, Git.
- Developing and implementing advanced algorithms for processing and analysing volumetric biological samples. This involves extracting meaningful information from complex datasets to support ongoing research projects and also writing and maintaining efficient, reusable, and reliable code for image processing pipelines.
- Conducting detailed image annotation and segmentation to identify and classify regions of interest within biological samples. This includes creating labelled datasets necessary for training deep learning models.
- Leveraging transfer learning techniques to enhance model performance by utilizing pre-trained models. This accelerates the development process and improves the accuracy of image analysis tasks.

Deep Learning Engineer   Jun. 2023 – Sept. 2023
Manchester Metropolitan University, Manchester, United Kingdom.

Tech-Stack: Python, PyTorch, Scikit-Learn, Matplotlib, Seaborn, MediaPipe, OpenCv, Overleaf, Git.
- Created and implemented a deep learning algorithm capable of automatically identifying and classifying macro and micro facial expressions on long videos by training on static facial expression images using CNN algorithms.
- Successfully utilized and repackaged the source-codes of an open-source framework "MediaPipe" for the detection and drawing of facial landmarks on images.
- Performed model training and evaluation, achieving an accuracy score of 84% and F1-Score of 82%, which is among top performing score in this field. Inference was performed on the CAS(ME)2 dataset and remarkable achievement was recorded.

Research Data Scientist - Intern   Jul. 2023 – Aug. 2023
The Rosalind Franklin Institute, Oxford, United Kingdom.

Tech-stack: Python, PyTorch, Scikit-learn, Linux, Matplotlib, Seaborn, Dawn, Git.
- Involved in a multifaceted role, where I developed a comprehensive Python package aimed at evaluating and comparing metrics for tomography reconstruction alongside other team members. This reduced the time taken by scientists to compare volumetric images of very large dimensions. Five image-quality metrics were added to the package.
- Led knowledge-sharing sessions with research scientists that enhanced the AI team's understanding of tomography, fostering collaboration and resulting in a highly effective solution.
- Successfully optimized research analytics processes, resulting in a remarkable 40% reduction in turnaround time for research scientists.

Data Scientist/Machine Learning Engineer   Jun. 2023 – Jul. 2023
Projects, Manchester, United Kingdom

Tech-stack: Python, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Gradio, Git.

- In this project, the primary objective was to effectively leverage a database containing anonymized vehicle advertisements and to predict the price of a car given some parameters.
- Successfully executed a comprehensive vehicle price prediction project by seamlessly integrating data preprocessing, feature engineering, optimal regression model selection, and interpretability analysis.
- Here's the link to the [WEBAPP](#).

Deep Learning Engineer   Aug. 2022 – Oct. 2022
Personal Projects, Lagos, Nigeria.
Tech-stack: Python, NumPy, Pandas, TensorFlow, Scikit-Learn, Streamlit, Git.
- Led a skilled team of Data Scientists to successfully develop and implement a Yoruba Proverbs Generator application.
- Effectively executed a comprehensive Yoruba Proverbs Generator project, seamlessly integrating data preprocessing, feature engineering, optimal model selection, and interpretability analysis.
- Achieved exceptional results with a loss of 0.229 and an accuracy of 92%, showcasing effective leadership and technical expertise.
- Here's the link to the [WEBAPP](#).

TECHNICAL SKILLS

Skills	Tools
Databases	MySQL, Microsoft SQL Server, PostgreSQL
Web Technologies	Python, C#
Tools/IDE	Google Colab, Jupyter Lab, Visual Studio, PyCharm
Data Wrangling	pandas, SQL, Microsoft Excel, Power BI
Machine Learning Frameworks	Scikit learn, NumPy, SciPy, Apache Spark, Gradio, Streamlit
Big Data Tools	Apache Spark
Version Control	GitHub, GitLab
Data Visualisation tool	Power BI, Seaborn, Matplotlib, Plotly, Napari, Dawn
Deep Learning	PyTorch, TensorFlow
Operating System (OS)	Windows, Linux

EDUCATION

Manchester Metropolitan University, Manchester, United Kingdom   Sept. 2022 – Sept. 2023
MSc Data Science
Grade: Distinction
Modules**:** Principles of Data Science, Machine Learning Concepts, Advanced Machine Learning, Data Management & Governance, Computational Mathematics & Statistical Analysis, Deep Learning, Algorithms & Data Structures.

University of Lagos, Lagos, Nigeria   Jan. 2016 – Jan. 2020

BSc (Hons) Actuarial Science

Modules: Financial Mathematics, Probability & statistics, Life & Other Contingencies, Actuarial & Business forecasting, Survival models.

CERTIFICATIONS

Data Camp Associate Data Scientist	2023
Intermediate SQL Course**,** Dataquest	2021
Applied Data Science: Scientific Computing and Python, World Quant University	2021