Onyekachi Osisiogu

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🌐 www.datascienceportfol.io/kachiann • ⌨ kachiann • in onyekachi-osisiogu

Education

Johannes Kepler University, Austria

Ph.D in Computational Mathematics, with Distinction *2019 – 2022*

African University of Science and Technology, Nigeria

M.Sc. Mathematics *2016 – 2017*

Ebonyi State University, Nigeria.

B.Sc. Industrial Mathematics and Computer Science *2010 – 2015*

Experience

Africa Agility Foundation **Remote**

AI/Data Science Trainer *Apr. 2024 – July 2024*

○ Designed a comprehensive, cutting-edge curriculum for the data science and AI tracks, ensuring alignment with industry best practices and emerging trends.

○ Created various materials for hands-on learning, including case studies, coding exercises, and real-world datasets.

Illinois Institute of Technology (IIT) **Chicago, United States**

Senior Research Associate/Visiting Assistant Professor *Aug. 2022 – July 2023*

○ Specialized in determining how the cost of the best possible algorithm grows as the error tolerance decreases and the dimension increases - Information-Based Complexity.

○ Collaborated on a cross-functional initiative to design and implement plug-and-play modules, enhancing the efficiency and portability of quasi-Monte Carlo software.

○ Elevated student performance through dynamic instruction and course enhancements while teaching Calculus.

Johann Radon Institute for Computational and Applied Mathematics (RICAM) **Linz, Austria**

Research Scientist *Dec. 2018 – July 2022*

○ Collaborated with an international research team to spearhead the development of efficient and fast quasi-Monte Carlo (QMC) algorithms - 4 **journal publications** (**See Google Scholar Profile**).

○ Optimized data and research information exchange within the team, resulting in a 15% boost in research productivity.

○ Dynamically translated research findings into actionable solutions by implementing QMC algorithms in Python and MATLAB, achieving a notable enhancement in computational efficiency.

Selected Portfolio Projects

Predicting Hotel Booking Cancellations Using Machine Learning **Link to the source code**

Python

○ Developed a predictive model for hotel booking cancellations and deployed it using an interactive Gradio app.

○ The solution provides real-time cancellation predictions, aiding in dynamic pricing and targeted retention efforts.

British Airways Data Science Job Simulation on Forage **Link to the source code**

Python

○ Analyzed customer reviews using NLP techniques like sentiment analysis (NLTK library) to derive business insights.

○ Built a predictive model using techniques like exploratory data analysis, feature engineering, and classification models to predict customer buying behaviour at British Airways.

Dashboard for Visualizing Tableau Focused Jobs

Tableau

Created and optimized a dynamic Tableau dashboard, improving job market data analysis and visualization.

Skills

Python, SQL, Tableau, Javascript, Git, Scikit-Learn, PyTorch, NLTK, MLflow, Streamlit, Cloud Computing, Prefect