Onyekachi **Osisiogu**

Professional Experience

Apr. 2024 – July 2024   **AI/Data Science Trainer**, *Africa Agility Foundation*, Remote
- 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.

Aug. 2022 – July 2023   **Senior Research Associate/Visiting Assistant Professor**, *Illinois Institute of Technology (IIT)*, Chicago, United States
- 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 students' performance through dynamic instruction and course enhancements while teaching Calculus.

Dec. 2018 – July 2022   **Research Scientist**, *Johann Radon Institute for Computational and Applied Mathematics (RICAM)*, Linz, Austria
- Collaborated with an international research team to spearhead the development of efficient and fast quasi-Monte Carlo (QMC) algorithms. **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

Python   **Predicting Hotel Booking Cancellations Using Machine Learning**, *Link to the source code*
- 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.

Python   **British Airways Data Science Job Simulation on Forage**, *Link to source code*
- Analyzed customer reviews using **NLP** techniques to derive business insights.
- Built a predictive model for consumer buying behavior at British Airways, informing strategic decisions.

Python   **Market Basket Analysis**
Identified patterns of co-occurrence among products purchased together by customers. Delivered actionable insights that empower the e-commerce platform to better serve its customers and drive business growth.

Tableau   **Dashboard for Visualizing Tableau Focused Jobs**, *Link to source code*
Created and optimized a dynamic Tableau dashboard, enhancing job market data analysis and visualization.

Education

2019 – 2022   **Ph.D in Computational Mathematics**, *Johannes Kepler University, Austria*, **Distinction**

2016 – 2017   **M.Sc. Mathematics**, *African University of Science and Technology, Nigeria*

2010 – 2015   **B.Sc. Industrial Mathematics and Computer Science**, *Ebonyi State University, Nigeria*

Skills

Programming   Python, R, SQL, MATLAB, Mathematica, HTML

Tools   PostgreSQL, Mlflow, Scikit-learn, Git, AWS, Streamlit, Gradio, Flask

Sprendlingen – Rhineland-Palatinate, Germany
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Visualization	Tableau, Excel, Matplotlib
Computational Mathematics	Proficient in applying mathematical principles to solve real-world problems, with strong analytical and problem-solving skills
Languages	Fluent in English, German (A1)

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