

Kenechukwu Nneji

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EDUCATION

Bachelor of Science

Expected April 2026

Florida International University, Miami, Florida

- Major in Mathematical Data Science
- GPA: 3.5/4.0
- Relevant course work: Fundamentals of Data Science, Programming 2: Intermediate Java Programming, Programming 1: Java, Introduction to Python Programming 3, Discrete Math, Multivariable Calculus, Differential Equations, Linear Algebra

EXPERIENCE

Data Science Intern

April 2024 - Present

Miami-Dade Information Technology Department, Miami, Florida

- Developed and implemented a polynomial regression model applying scikit-learn (PolynomialFeatures, LinearRegression) to analyze and predict relationship between Average Daily Population (ADP) and Incarceration Rate in Miami-Dade County
- Prepared detailed visualizations and analysis through using Python script (matplotlib and numpy) in Power BI to present trends of increase and decrease in incarceration rates relative to average daily population

Research Assistant

July 2023 - Present

FIU Extreme Events Institute, Miami, Florida

- Utilized MATLAB's plotting functions to generate intricate wind rose diagrams, enabling research specialists to identify prevailing wind directions with a remarkable accuracy of 95%
- Applied SciPy to create custom scripts assigned by research specialists to determine mean wind speed and standard deviation in studying wind behavior

Non-Profit Consulting Extern

January 2024 - March 2024

PricewaterhouseCoopers (PwC), Remote

- Conducted an in-depth analysis of multiple workforce development programs utilizing analytics tools (Excel), in identifying key trends and opportunities for enhancement across diverse industries to engage in collaborative discussions with PwC professionals

PROJECTS

Personal Project Lead, BookCover GPT

June 2024 - June 2024

- Developed a backend system using OpenAI's GPT-4 for generating creative and relevant book cover designs through NLP
- Integrated a Flask framework to handle API requests and coordinate interactions between backend and frontend

Personal Project Lead, Nigerian Rainfall Forecast Model

April 2024 - May 2024

- Cleaned a large-scale dataset containing entries spanning 24 years (2000-2024) of Nigeria's rainfall data across 14 columns, utilizing pandas and numpy for data processing and statistical analysis in preparing dataset for linear regression analysis
- Created a predictive model leveraging linear regression from scikit learn library to forecast detailed rainfall data, employing monthly and yearly indices to enhance accuracy of predictions

COMMUNITY ENGAGEMENT

Social Media Manager/Marketer, African Student Association at FIU

August 2023 - Present

- Managed content creation and scheduling across social media platforms, enhancing community interaction and event promotion

Mentor and research Paper Reviewer, Talking Science, Research and Development Group

October 2023 - December 2023

- Served as a key reviewer and on-site mentor, offering guidance and constructive feedback to high school seniors from TERRA Environmental Research Institute on empirical manuscripts and provided continuous support throughout submission process

SKILLS

Programming Languages: Python, Java, JavaScript, MATLAB

Libraries/Frameworks: pandas, matplotlib, NumPy, seaborn, statsmodels, SciPy, folium, scikit-learn, Tensorflow, PyTorch, OpenAI API, flask, React.js, HTML, CSS

Development Tools: AWS, Azure DevOps, GitHub, Git, Power BI

Soft Skills: Mentorship, Tutoring, Technical Writing, Adept Communication, Task Coordination, Project Collaboration