

Njoku Okechukwu Valentine

Data Analyst

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Portfolio — LinkedIn — GitHub

Professional Summary

Analytical and detail-oriented Data Analyst with 3+ years of experience leveraging SQL, Python, and Power BI to deliver actionable insights and predictive models. Skilled in data cleaning, visualization, and machine learning, with a track record of improving decision-making, boosting student engagement, and optimizing datasets. Passionate about using data to drive innovation and business growth.

Core Skills

- **Programming:** Python, SQL
- **Data Analytics:** Pandas, NumPy
- **Visualization:** Power BI, Matplotlib, Excel
- **Machine Learning:** Regression, Classification, Clustering
- **Statistical Analysis:** Hypothesis Testing, Data Cleaning
- **Version Control:** Git/GitHub

Professional Experience

Adjunct Lecturer – Computer Science

Claretian University — 2022 – Present

- Delivered lectures in data analytics, machine learning, and relational databases to 120+ undergraduate students.
- Designed and implemented practical-based learning modules, improving student performance and comprehension by 30%.
- Mentored students on real-world computing applications, leading to a 20% increase in project completion rates.
- Earned 95% positive feedback from student evaluations.

Data Analyst Intern

360DigiTMG — Jun 2024 – Jul 2024

- Applied CRISP-ML(Q) methodology to analyze machine downtime datasets and ensure quality assurance.
- Developed and trained a predictive machine downtime model, improving forecast accuracy by 15%.
- Conducted root cause analysis of downtime events, identifying inefficiencies that could save up to 10% in operational costs.

Python Faculty

NIIT Owerri — Feb 2018 – Dec 2021

- Designed and launched the Python programming curriculum, increasing student enrollment by 5% and retention by 12%.
- Simplified complex programming concepts for beginners, boosting exam pass rates by 20%.

- Introduced Blender for Python game development, engaging over 40% of students in practical coding applications.

Certifications

- **Cybersecurity Analyst – IBM & Google (2023)**
Mastered network security, threat detection, and risk mitigation techniques.
- **Data Science Certificate – Explore AI (2022)**
Completed projects in predictive modeling, data wrangling, and visualization.

Projects

Teamwork

- **Python — British Railway Tube Twin:** Modeled London's railway system to evaluate route efficiency, reducing simulated passenger travel time by 10%.
- **Python — Movie Recommendation System:** Developed a recommendation engine using collaborative filtering, boosting recommendation accuracy by 18%.

Personal

- **SQL — HR and Kickstart_Projects Data Cleaning:** Cleaned and standardized large datasets (50K+ rows) by removing duplicates, nulls, and inconsistencies, improving analysis efficiency by 25%.
- **Python — Titanic Data Analysis:** Applied classification models to predict survival rates with 78% accuracy using exploratory data analysis and feature engineering.

Education

MSc, Computer Science (in view)	<i>Federal University of Technology, Owerri — 2024 – 2025</i>
B.Tech, Computer Science	<i>Federal University of Technology, Owerri — 2005 – 2010</i>