

CONTACT

- Open to Remote
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- github.com/Danselem

SKILLS

Data Visualization:

- Matplotlib (Experienced)
- Plotly (Experienced)

Techniques:

- Hypothesis Testing
- Statistical Analysis
- Machine/Deep Learning
- Text Analysis/NLP
- Web Scraping
- Time Series Forecasting

Tools and Frameworks:

- Python
- VS Code, PyCharm, Jupyter
- Numpy, Pandas, Scipy,
- Scikit-learn, XGBoost
- TensorFlow Keras
- Request, Scrappy, BeautifulSoup
- Twint, snsrape, NLTK
- Flask, BentoML, StreamLit
- Docker, Git
- Kubernetes (kubectI, kind)
- PostgreSQL
- MongoDB
- HuggingFace
- GCP BigQuery
- Prefect
- Edge deployment
- Intel OpenVINO

OTHER

- Courses Completed: Machine Learning [ZoomCamp](#), [WorldQuant](#) Scientific Computing & Python, [WorldQuant](#) Machine Learning & Statistical Analysis.
- Volunteered as a Python and Data Science Tutor for the Igbo Tech Group and trained 35 students.
- Interest: Space, Business consulting, Health Tech, Web 3, SMEs.

Daniel Egbo

Data Scientist/Machine Learning Engineer

An Astrophysicist using large and complex data to understand space phenomena pivoting into Data Science and Machine Learning roles. With over 2 years of experience researching variable stars in collaboration with 8 research partners across the globe, I am honed with skills like research, experiment design, exploratory data analysis, and machine learning with an interest in making valuable contributions to your organization.

WORK EXPERIENCE

PhD Candidate (Astronomy)

February 2021 – Current

[UCT/SAAO](#), Cape Town, WC

- Analyzed 15 big data products in tabular (over 500,000 sources) and imagery formats (over 50 image data cubes).
- Researched and developed a cross-correlation method for the Research group and used the same approach in cross-correlating 11 catalogues with the [MeerKAT](#) radio surveys resulting in research outputs of over 3000 radio-optical counterparts.
- Reviewed 72 journal articles and produced over 60 visualization graphs for journal publication and presentation.
- Crafted 2 new research projects from cross-correlated result data involving machine learning.
- Employed reproducible research methodology and open-source techniques to increase research outputs by 15%.

Machine Learning Intern

September 2020 – January 2021

[Ubenwa Health](#), Remote

- Performed signal processing and analysis of clinical audio data into features thereby improving data quality by 7%.
- Researched, designed and implemented machine learning applications to solve problems related to infant asphyxia infections, resulting in a 5% improvement in model accuracy.
- Collaborated with 6 multidisciplinary product development teams to integrate models and improved app performance by 18%.

EDUCATION

Machine Learning ZoomCamp (Student)

October – December 2022

[DataTalksClub](#), Online

- Trained a gradient-boosting regression [model](#) with sci-kit-learn for predicting appliance energy consumption in a low-energy building with a prediction accuracy of 97%.
- Prepared a convolutional neural network [model](#) with TensorFlow Keras for classifying radiographic chest x-ray images into normal, pneumonia and covid classes achieving an accuracy of 91.3%.

Master of Science

December 2019

University of Nigeria, Nsukka

Major in Astronomy

Bachelor of Science

August 2014

University of Nigeria, Nsukka

Major in Physics & Astronomy