

Ifeoma Veronica Nwabufo

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EDUCATION

- **African Masters of Machine Intelligence - African Institute for Mathematical Sciences** Senegal
MSc Machine Intelligence 2022
Selected Courses: Foundations of Machine Learning, Computer Vision, Natural Language Processing, Kernel Methods
- **African Institute for Mathematical Sciences** Senegal
MSc Mathematical Sciences; GPA: Merit 2020 - 2022
Selected Courses: Machine Learning, Deep Learning, Probability and Statistics, Data Mining and Big Data Analysis, High Dimensional Data Analysis
- **Kaduna State University** Nigeria
BSc Mathematics; GPA: 4.66/5 2015 - 2019
Selected Courses: Mathematical Modelling, Biomathematics, Differential Equations (ODEs and PDEs), Probability, Statistics

SKILLS

- **Programming languages:** Python, SQL
- **Frameworks:** Scikit, PyTorch
- **MLOps:** Heroku, Flask, Azure
- **Tools:** Git, Vagrant
- **Platforms:** Linux, Windows, Mac OS
- **Soft Skills:** Writing, Problem Solving, Good Communication Skills

EXPERIENCE

- **Stem Away** Remote
Bioinformatics Intern July - Aug 2022
 - **Problem Statement:** Patients have differing reactions to cancer drugs.
 - **Goal:** Finding significantly correlated genes with IC50s of drugs and deployment of an R Shiny app.
- **Start Codon, Cambridge, UK** Remote
Business Analytics Intern Jan - March 2022
 - **Project:** Analysis of startups in Eastern Africa.
 - **Achievement:** Produced reports about investment destinations.
- **Atos Senegal** On-site
Big Data Intern Oct 2021 - Jan 2022
 - **Project:** Researched on segmentation and social network analysis of customers.
 - **Achievement:** End-to-End machine learning - deployed a web clustering app.

PROJECTS

- **Prediction of COVID using DNA Sequences:** The task was to predict the presence of COVID using DNA sequences. Used various models but Kernel Linear Regression achieved 93% accuracy on Kaggle. Skills: Python, Kernel Methods, Cross-Validation, Disease Classification (July 2022)
- **Cassava Disease Classification:** Used images of cassava plants to predict whether the plants had cassava disease or not. Skills: PyTorch, Image Classification (May 2022)

PRESENTATIONS

- **Deep Learning Optimizers:** Investigation of different deep learning optimizers. (April 2022)
- **Gaussian Mixture Models (GMMs) for text classification:** Exploration of GMMs as a means of classifying data with varying distributions. (April 2022)

PUBLICATIONS

- Okolo, P.N., Nwabufo, I.V., Abu, O., (2020). Mathematical model for the transmission dynamics of Lassa fever with control. Science World Journal. Vol. 15(No 2), pg 62-68.

LEADERSHIP AND VOLUNTEER EXPERIENCE

- **Weekend Python Tutor (Remote)** DLBC
Volunteered to take students course in Python programming. *Aug 2022*
- **Students' Health Representative** AIMS-Senegal
Responsible for the health concerns of students on campus. *Feb 2022 - Present*
- **Undergraduate Tutor** Kaduna State University
Initiated, conducted and organized tutorials that met weekly (on average) for undergraduate students. *2016 - 2019*

HONORS AND AWARDS

- 1 of 42 awarded a fully-funded master's scholarship sponsored by Facebook and Google to study Machine Intelligence.
- 1 of 36 out of 6600 applicants given scholarship award for AIMS Senegal Big Data master's program.
- 1 of 21 given the Federal Government Scholarship Award for students in tertiary institutions in Nigeria.