

Samuel Nnitiwe Theophilus

Machine Learning Engineer

Taraba

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A Data Scientist / Machine Learning Engineer & Technical Writer with a specialization in the design and implementation of deep/machine learning algorithms. I have a solid basis in predictive modeling, optimization problems, web programming, and software development. I'm also a highly motivated, curious, innovative, and results-oriented individual with a publication track record.

Work Experience

Junior ML Engineer

Omdena - New York, NY

April 2021 to Present

- Collaborated closely with team members and Clients to identify Weeds & Crops using Drone Imagery and reduce environmentally devastating herbicides usage by more than 50%.
- Responsible for building Pix2pix and Auto Encoder super-resolution Models with average scores of PSNR over 69 % and SSIM over 54%.

Data Scientist

Free Lance

November 2019 to Present

- Modelled a Resume Selection classifier with weighted average Precision of 76%, Recall of 76%, and F1-Score of 74%.
- Collected, studied, and interpreted over 10 large datasets; conducted reports; performed accurate, successful data management.
- Scraped websites & extracted data from multiple sources (such as. Wikipedia, Yahoo Finance) to extract and transform data to the right structure for processing.
- Designed Graphs and Dashboards using Tableau, Plotly, Dash & Seaborn to present and gain more insight into Data to address business challenges.
- Developed and implemented classification models on different problem sets using algorithms such as Logistics Regression, Linear Regression, KNN, Decision Tree, ANN, and other ML Models for Supervised Tasks scoring at least 70% accuracy.
- Analyzed and identified 15 clusters using the Foursquare API (neighborhoods data for Brooklyn & Coventry) to help an Organization handle Employee relocation to its new Branch office.

Software Developer

Nnitiwe Tech Limited

April 2016 to November 2019

- Executed a Research and presented a paper on "Web-Based Cataract Detection System Using Deep Convolutional Neural Network", on IEEE which achieved a Sensitivity of 69%, a Specificity

of 86%, Precision of 86%, an F-Score of 56%, AUC of 84.56%. and accuracy score of 78 (<https://ieeexplore.ieee.org/abstract/document/8949636>).

- Designed user-friendly websites, optimized existing websites cutting down the loading time by more than 20%, and implemented enhancements that significantly improved functionality and compliance with security standards.
- Oversaw full lifecycle of software development for over 15 projects while communicating with clients with 100% on-time delivery while staying under budget(including <https://kolmargeyesight.org>, <https://www.servioscope.com>, <https://www.nnitiwetech.com> & more).
- Trained over 20 Clients in internal web functions, including steps on how to independently make minor updates or changes on software solutions.
- Designed and implemented 3 machine learning learn-based projects ML Tooys, a NLP web-based project (https://lit-bastion-61160.herokuapp.com/ml_projects/)
- Illustrated over 500 artwork and digital resources for the company and executed digital strategy (content creation and advertising) for the Company's online account.

Data Analyst Intern

TakenMind - India

September 2019 to September 2019

- Engineered solutions using advanced calculations to perform data analytics and visualization tasks on Employee attrition data with over 2000 records using programming tools such as Numpy, Scikit Learn, and Pandas.
- Created 5 Graphs and Dashboards with Seaborn to process visuals and develop presentations.

Technologist/Graduate Assistant

Wesley University - NG

May 2018 to March 2019

- Conducted 5 hours per week of classroom instruction and co-taught "Computer Graphics" and "Compiler Construction 1" courses to computer science students.
- Delivered administrative support to 2 assigned projects and programs as directed by the supervisor.
- Executed digital strategy for the University's online account, overseeing the organization's social media brand strategies and creating content, while improving the University's communication with prospective students by 96%.
- Created over 30 artwork and layout for print and digital signage, banners, posters, publications, and flyers for the University under the supervision of the IT Unit Head.

Intern

Abuja Electricity Distribution Company - NG

February 2016 to July 2016

- Automated the Organization's Visitor Logging System by developing a Web-based Visitors Management System to save Recipient's response time by over 50% under the supervision of the Lead Software Developer.
- Improved and managed internal and external business communications by handling complaints within 15 minutes (after logging) and monitoring VoIP Phones in the organization under the supervision of the Lead Network Engineer.
- Doubled the productivity of employees and reduced IT costs by 14% by responding to Staff queries, diagnosing, and troubleshooting technical issues.

Education

Bachelor's Degree in Computer Science

Bingham University Karu

September 2013 to October 2017

Senior Secondary

Bright Future High School

September 2010 to July 2013

Junior Secondary

Redeemed Peoples Academy

September 2007 to July 2010

Primary

Grace Junior Academy

September 2002 to July 2007

Skills

- Machine Learning
- Python
- Deep Learning
- Data & Analytics
- Restful APIS
- ETL
- Natural Language Processing
- Big Data
- Tableau (Software)
- Web development
- Graphic Design
- Python-Numpy
- Data Visualization
- Scikit Learn
- Jupyter
- Presentation Skills
- Pandas Python
- TensorFlow
- Git
- SQL
- AWS
- Bootstrap

Languages

- English - Fluent

Links

<https://nnitiwe.medium.com>

<https://www.linkedin.com/in/samuelnnitiwetheophilus>

Certifications and Licenses

DeepLearning.AI Professional

June 2021 to Present

Coursera:

<https://www.coursera.org/account/accomplishments/specialization/certificate/RTCC8GVDNUUC>

IBM Data Science Professional Certificate

March 2021 to Present

Coursera

[https://www.youracclaim.com/badges/0a1e3f2a-2db5-47b4-83cf-21644ff1b0b8?](https://www.youracclaim.com/badges/0a1e3f2a-2db5-47b4-83cf-21644ff1b0b8?source=linked_in_profile)
source=linked_in_profile

Big Data on AWS

April 2020 to Present

Udemy:

<https://www.udemy.com/certificate/UC-1affd976-7ef5-4867-8649-7141233ea2f6/>

Master Course in Tableau 10 & 2019 for Business Intelligence

January 2020 to Present

Udemy

<https://www.udemy.com/certificate/UC-74ASDG6H>

Publications

Web-Based Cataract Detection System Using Deep Convolutional Neural Network

<https://ieeexplore.ieee.org/abstract/document/8949636>

January 2020

Publisher: IEEE