

Sewade Olaolu Ogun

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Education

- 2019–2020 **Msc Mathematical Sciences, Machine Intelligence.**
African Institute for Mathematical Sciences (AIMS), Ghana
Ongoing
- 2018–2019 **MSc Electrical and Electronic Engineering, Power Systems.**
University of Lagos (UNILAG), Nigeria
- 2017–2012 **B.Tech Electronic and Electrical Engineering.**
Ladoke Akintola University of Technology (LAUTECH), Oyo, Nigeria
GPA – 4.53/5.0 First Class

Experience

- 02.18–
Present **NLP Engineer, Remote/Part Time.**
Proto
Create AI Customer Experience (AICX) chatbots for multilingual contact centers in African financial markets.
- 04.17–
Present **Software Engineer.**
Freelance
Build web app solutions for customers, colleagues and work place. Django/React/NodeJS
- 04.17–09.19 **Predictive Engineer.**
Flour Mills of Nigeria Plc
Evaluating trends in machine data to detect and predict failure for preventive maintenance

Awards/Scholarships

- 2019 Masters Scholarship, sponsored by Facebook and Google
- 2012 Best Graduating Student, Communications Option
- 2009, 2010, 2011 MTNF Science and Technology Undergraduate Scholarship
- 2006 1st Place, Lagos State Mathematics Olympiad
- 2004 Bronze Medal, National Junior Science Olympiad

Graduate Coursework

Machine Learning, Convex Optimization, Deep Learning, Reinforcement Learning, Natural Language Processing, Natural Language Understanding, Gaussian Processes, Computer Vision, Kernel Methods, Geometric Machine Learning, Matrix Factorization

Technical Skills

- 1 Programming Languages: Python, Java, Octave/Matlab, HTML5/CSS, Javascript, SQL
- 2 Operating Systems: Linux, Windows
- 3 Research: Git, Scikit-learn, SciPy, NumPy, Pandas, Spacy, Stanford NLP, \LaTeX
- 4 Deep Learning Frameworks: Tensorflow, PyTorch, Keras, Fastai
- 5 web: Google Cloud, Colab, Heroku, NodeJS, Django, React

Workshops

- 2020 Machine Learning Summer School, Max Planck Institute of Intelligent Systems, Germany - Virtual
- 2019 Deep Learning IndabaX, Lagos

Projects

- Speech **Yoruba Speech Dataset: A dataset for low-resource speech tasks.**
Over 3 hours of audio recordings of yoruba text which can be used for various low-resource language/speech tasks - [Project Link]
- Speech **Comparing Yoruba and French Speech Models in Low-Resource Settings.**
CPC models trained on 1 hour of yoruba and french audio evaluated with Character Error Rate. - [pdf link]
- Computer **Exploring Detectron2 for Object Detection Tasks.**
Vision Instance segmentation, pose estimation, object tracking performed on datasets using the detectron2 library. Pretrained models finetuned on custom tasks - [project link]
- Computer **Cassava Disease Classification.**
Vision Classify cassava plants as belonging to one of 4 various disease classes or healthy - [project link]
- NLP/Kernel **DNA Sequence Classification using Kernel Methods.**
Predict whether DNA sequence region is binding site using Kernel methods. Experimented with different kernels such as mismatch kernel, gaussian kernel, weighted-degree kernel - [project link]

Articles

- From GRU to Transformer [link]
- K Nearest Neighbor as a Neural Network [link]
- You Don't Really Know Softmax [link]
- Other interesting articles on <https://ogunlao.github.io/archive/index.html>

Additional Courses and Certifications

- 2020 **Data Engineering with Google Cloud**, *Coursera/Google*, [Cert Link].
Designed solutions involving Extract, Transform and Load (ETL) operations of batch/streaming data using Cloud Dataproc, Cloud Dataflow and Bigquery, analyzed big data using Google Data Studio and Bigquery
- 2019 **Deep Learning Specialization**, *deeplearning.ai*, [Cert Link].
Implemented deep learning models and algorithms such as batch normalization, convolution, optimization algorithms(RMSprop, Adam), YOLO, LSTM enabling a concrete understanding of the subject.
- 2019 **IBM Data Science Professional Certificate**, *Coursera/IBM*, [Cert Link].
Instance segmentation, pose estimation, object tracking performed on datasets using the detectron2 library. Pretrained models finetuned on custom tasks - Project Link
- 2014 **Oracle Database SQL Administration**, Oracle University.
Database management using SQL queries

Service

- 2019-2020 Facilitator, Computer Vision Reading Group, AMMI
- 2013 Cadet-in-chief, Federal Road Safety Club