JOLOMI TOSANWUMI

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OBJECTIVE / SUMMARY

Jolomi Tosanwumi is a research assistant at Data Driven Decision Making Lab in University of Toronto. **With over 5 years experience** working with data, he has developed expertise in creating useful and intelligent solutions across financial services and research. He has a penchant for applying data science and machine learning in corporately solving problems and meeting organizational goals. He is self-driven, enjoys working with data, and is interested in using machine learning and deep learning for descriptive, diagnostic, predictive and prescriptive data analysis.

SKILLS

- Data Science, Machine Learning, Deep Learning, Data Visualization, Data Storytelling, Statistical modeling, Causal Inference, Bayesian Inference, time series analyses.
- Python, R, Tensorflow, Keras, Pytorch, SQL, PostgreSQL, Google Big Query, PySpark, Power BI, Tableau, Git, AWS, GCP.

EDUCATION

University of Toronto   Jan. 2023   Dec 2024(expected).
- **Program:** MASc Mechanical and Industrial Engineering.
- **Research Area:** Applied Machine Learning
- **CGPA:** 3.85/4

University of Benin   Mar. 2014   Oct.2018.
- **Program**: BEng. Mechanical Engineering.
- **CGPA**: 3.208/4

WORK EXPERIENCE

Data Driven Decision Making (D3M) Lab | Toronto, ON, Canada.   Jan. 2023   present.
Research Assistant
- Research Area: Optimization Models for Temporal Clustering (under the supervision of Professor Scott Sanner)
- Built a new python library   , which uses novel methodology for optimal time series clustering.

University of Toronto | Toronto, ON, Canada.
Teaching Assistant
MIE 223H1 (Data Science) Lead Teaching Assistant   Jan. 2024   Apr. 2024.
- Conducted tutorial sessions and graded data science assignments covering topics across data cleaning, data manipulation, geographical data analyzes with Geopandas, Network analyzes with Network X, Bayesian Inference with PyMC, and Natural Language Processing (NLP) with NLTK.

MIE 1513 (Decision Support Systems) Teaching Assistant   Sep. 2023   Dec. 2023.
- Prepared data science Lab material, and conducted tutorial sessions on National Language Processing (NLP) using Python, Spacy, NLTK, text mining, sentiment analyzes and Word cloud visualization.

MIE 223H1 (Data Science) Course Prep Teaching Assistant   Sep. 2023   Dec. 2023.
- Prepared course Lab material covering topics across data manipulation and data cleaning with Python using Pandas and Numpy, data visualization using Matplotlib and Seaborn.

Turing | Palo Alto, CA, USA (Remote).   May 2022   Dec 2022.
Data Scientist
- Used Google Big Query, Mode, and Google Analytics to create dashboards for the Growth team to monitor ads and key metrics.
- Used Python to build an experimental machine learning model with promising increase in sales-qualified lead (SQL) rate.

QuickCheck | Lagos, Nigeria.   Oct. 2021   Dec 2022.
Data Scientist
- Used Python and SQL to develop credit scoring models and machine learning models for Quickcheck and JumiaPay apps that reduced their default rates by 4%.
- Created dashboards for the Operations team to monitor trends and to improve operational process excellence using Metabase, Power BI.

Utiva | Lagos, Nigeria.   May 2021   Dec 2022.
Data Analytics/SQL Instructor
- Tutored over 500 students (including employees of Diageo) in data analytics with PostgreSQL which contributed to .

BrilloConnetz | Lagos, Nigeria.   Mar. 2021   Oct. 2021.
Data Scientist
- Taught students machine learning and natural language processing (NLP) using Python and R, and on using MATLAB to solve engineering problems.

Hamoye A.I. Lab | Lagos, Nigeria (Remote).   Jul. 2020   Dec. 2020.
Data Science Intern
- Led a team of data scientists to build a credit card fraud detection model using Tensorflow with an f1 score of 87.9%
- Led a team to build an LSTM model (using Tensorflow) to forecast Bitcoin prices and obtained a MAPE score of 1.79%.

Ediene Community Secondary School | Akwa Ibom, Nigeria.   Jul. 2019   May. 2020.
Further Mathematics Teacher
- Taught 10th grade high school students Algebra, Calculus, and Statistics (as part of my mandatory National Service); and improved their average performance by 20.3%.

PUBLICATIONS
- Tosanwumi J. et al (2024). tscluster: A Python Package for the Optimal Temporal Clustering Framework. (*Manuscript recently accepted for publication*).
- Tosanwumi J. et al (2024). Predictive Time Series Clustering with Granger Causality. (*Manuscript submitted for publication*).
- Tosanwumi J. (2020). **Fbeta Score in Keras I**. *Towards Data Science*.
- Tosanwumi J. (2020). **Using Vector Auto-regression to Model Bitcoin Prices**

TRAININGS / CERTIFICATIONS
- Google Cloud Platform Fundamentals: Core Infrastructure, Coursera.   May 2021
- Virtual Internship Participant, Quantium.   Feb. 2021
- Jobberman Soft-Skills Training, Jobberman.   Sep.2020
- AWS Fundamental Course, Udacity.   Aug. 2020
- Honors, Machine Learning and Statistical Analysis, WorldQuant University.   Jun. 2020
- Graduate Membership Certification, Nigerian Society of Engineers.   Feb. 2020
- Professional Certification in Project Management, British Project Management Academy.   Nov. 2019
- HSE 1,2,3 Certifications, UK SHE Organization.   Nov. 2019

VOLUNTEER ACTIVITIES
-   Jul. 2023   Jul. 2024
- Data Science Mentor, Africode.   Oct. 2021   present
- President, NYSC Charity and Gender Community Development Service Group, Ikono.   Feb. 2020   May 2020
-   Nov. 2017   Nov. 2018