

BRIAN TEMU

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EDUCATION

University of Maryland Baltimore County

Master's in Data Science

Aug 2023 – May 2025

Maryland

University of Dar es salaam

Bachelor of Science in Computer Science

Nov 2019 – Oct 2022

Dar es salaam

SKILLS

Programming Languages: Python, Javascript, C, C++, and SQL.

Machine Learning: Pytorch, TensorFlow, MLX, Scikit-learn, Pandas, Numpy, Seaborn, and Matplotlib.

AI/ML Skills: LLM fine-tuning, sentiment analysis, neural networks, and feature engineering.

Tools: ML flow, Visual Studio Code, Jupyter Notebook, Docker, Git, and Google Colab.

Courses: Algorithms, Big Data, Database Management Systems, Machine Learning, and Artificial Intelligence.

WORK EXPERIENCE

Institute of Genome Science, UMB

Data Science Intern

May 2024 – Aug 2024

Maryland

- Leveraged antiSMASH to analyze Bacteria Vaginosis gene clusters, uncovering critical biosynthetic patterns linked to recurrent Bactetia Vaginosis.
- Applied statistical and bioinformatics methods to uncover genetic markers for targeted Bacteria Vaginosis research.
- Collaborated with researchers to align antiSMASH results with study goals, providing insights that guided the direction of BV research.

Softnet Technologies Ltd

Software Engineer

April 2022 – Aug 2023

Dar es salaam

- Designed and executed new features and enhancements, leading to a 15% improvement in user experience.
- Reduced bugs by 25% and improved product quality through collaboration with the product owner.
- Led workshops on Tailwind CSS and Figma, achieving 90% adoption, and saving using external templates.
- Implemented Scrum, achieving 20% more on-time project deliveries with 95% sprint goal success.

Tanzania Data Lab (dLab)

Machine Learning Engineer Intern

July 2021 – Sept 2021

Dar es salaam

- Expertly collected, cleaned, and transformed image data, ensuring top-quality training datasets that achieved optimal model performance.
- Collaborated with cross-functional teams, including software developers and domain experts, to deliver solutions that improved project efficiency by 20%.
- Researched and evaluated machine learning algorithms that boosted model evaluation by 15%.
- Achieved significant performance improvements by applying transfer learning techniques increase accuracy by 12%.

PROJECTS

Vision Transformer | Paper Replicatioin

December 2023

- Identify key components from the paper mainly transformer architecture and attention mechanisms that were translated to modular pytorch code.
- Improve the accuracy by assessing the model performance using various metrics (accuracy, precision, recall etc) that are involved in optimizing the performance through transfer learning.

Real-Time Face-mask Detection System | Computer Vision

July 2022

- Proactively optimized models for robust real-world performance in diverse settings.
- Curated a diverse dataset of masked and unmasked individuals, standardizing the model for enhanced performance.
- Utilized the layout editor to create a UI for the application in order to allow different scenes to interact with each other.

Baltimore Police Department Crime | Data Analysis

November 2023

- Gather insight into the increase in crimes by exploring and modeling to identify patterns and trends within the dataset that correlate with the change.
- Verifying the findings by conducting hypothesis testing to validate and draw actionable insight from the analysis.

CERTIFICATION

DeepLearning.AI TensorFlow Developer Professional Certificate, Coursera

March 2023