David Elvis Kombo

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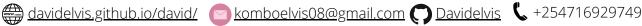## ABOUT ME

I am a Machine learning Engineer with experience in many fields of machine learning and data science such as anomaly detection, text to speech translation, reinforcement learning, and natural language processing, developing methods/pipelines to analyze, model and get insights from all types of data while also visualizing the results from the models created.

As a data scientist, I was also involved in developing tools and frameworks to help in boosting other data scientists' productivity.

I'm also motivated by challenges and believe that a new problem is always an opportunity to learn and discover new solutions.

Professionally, I aim to become a personal and technical reference for my colleagues and those who are beginning in the field, while also positively impacting as many people as possible with my work.

EXPERIENCE

Kunumi   **Belo Horizonte MG**

Machine learning engineer | March 2021 - present

- Acting as a Machine learning engineer, I am heavily involved in developing ML tools and frameworks for optimization of commercial projects, mainly focusing on Reinforcement learning optimization.
- I am also involved in developing low resource code machine learning platform

TraitsAI   **San Diego, California US**

Machine learning Intern | November 2020 - March 2021

- Tweaking already developed machine learning algorithms to perform tasks that assist and inform the development of conversational AI,[Fastspeech2, MB-MelGAN, MelGAN, Parallel WaveGAN]
- Researching on existing technology related to speech style transfer speech synthesis that enables the production of high-quality audio files that mimic a target actor's voice and speech style.
- Training, evaluating, and optimizing machine learning models to produce real-time audios of a target actor that matches their speech style.

Omdena   **New York, NY**

Junior Machine learning engineer | November 2020 - Feb 2021

- A project with the World Resources Institute, Code For Africa, and collaborators from Stanford University to leverage #AI to map land ownership to boost Kenya's efforts to restore degraded land in an equitable way
- Created Knowledge Graphs of land ownership in Kenya, NetworkX and Neo4j
- Understanding different networks in the open-source land documents.
- Geo-tagging network data & making it easily accessible to social-activists, journalists.

EDUCATION

Jomo Kenyatta University of Agriculture and Technology   **Kenya**

Bachelor of Pure and Applied Mathematics | 2017 to 2021

- Specialization Computational mathematics

AI Centre of Excellence (AICE)   **Nairobi**, **Kenya**
                                                    | Dec 2020 to May 2021

- Enrolled in AICE. An esteemed AI centre focused on intensive online training with the full range of competencies, required to become a job-ready ML/AI engineer.

10 Academy   **Germany**
                                                    | July 2020 - Oct 2020

- Joined an esteemed academy focused on intensive online training with the full range of competencies(technical and non-technical) required to become a job-ready data scientist.
- Working on different projects weekly and sharpening my skills in Statistics and machine learning modelling, data acquisition and cleaning, exploratory data analysis, value extraction, data visualization as well as exposure while competing on platforms such as Zindi(Africa) and Kaggle(Worldwide).

SKILLS

- Time-Series analysis (modeling, feature engineering, evaluation)
- Anomaly Detection (unsupervised, semi-supervised and supervised methods)
- NLP (feature engineering + statistical methods and deep learning)
- Reinforcement Learning (Actor-critic, Deep Q-Learning)
- Deep Learning (keras, pytorch, recurrent and convolutional networks, pre-trained models)
- Statistical Learning (Gradient Boosting, classification, regression and clustering methods)
- Explainability, interpretation and causality for machine learning
- Deployment frameworks (flask, streamlit, mlflow)
- AWS (ec2, s3,), GCP (Using VMs and deep learning tools)
- Containerization (Docker, Kubernetes)
- Relational Databases (MySQL, SQLServer,)
- Software engineering (Agile methodology, testing, Version control)
- Project Management (Reporting and documentation, remote collaboration tools, Design thinking)

INTERESTS

- Mindfulness
- Space exploration
- Nanotechnology