

# DE

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## DAVID ELVIS KOMBO

### ML/AI Engineer

A machine learning/AI engineer passionate about cutting-edge technology and solving real-world problems. As a result-driven individual, I have successfully translated business requirements into models that were continuously improved with an aim to improve customer experience and driving business impact.

## Work Experience

### **Machine Learning and Conversational AI Engineer**

#### TraitsAI / November 2020 - Present

- 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.
- Researching on Video synthesis algorithms like: Synthesizing Obama: Learning Lip Sync from Audio, Neural voice puppetry

### **Junior machine learning engineer**

#### Omdena / November 2020 - February 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.

## Skills

- Strong coding and debugging in Python, C/C++
- Strong background in Applied Mathematics
- Data modelling and evaluation skills
- Strong knowledge in Natural Language Processing
- Experience in Distributed computing
- Strong understanding Reinforcement learning
- Agile scrum methodology
- Possesses advanced analytical skills and problem solving skills needed to manage multiple demands on a project, simultaneously.

# Educational Training

## **IO Academy, (July 2020-October 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).

## **Jomo Kenyatta University of Agriculture and Technology, (2017 - 2021)**

Bachelor of Science in Pure and Applied Mathematics

Specialization Computational mathematics

## **AI Centre of Excellence(December 2020- Present)**

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.

# Certificates

- Data science toolbox John Hopkins University, *Coursera*
- Data science online course, *IBM*
- Data science, Data analysis with python and R online course, *Udemy*
- Machine Learning, *Kaggle*
- Sentimental Analysis, *DataCamp*, *E-learning*
- Python for data science and AI, *IBM*
- AI from the Data centre to the edge, *Intel AI Academy*

# Interests

- Mindfulness
- Artificial Intelligence
- Football
- Nanotechnology

# Achievements

## **Google Africa Developers Scholarship**

Accepted to Google Africa Developers under the google cloud track and received a batch for being active in engaging with the content.