




GODWIN MUTHOMI

DATA SCIENTIST,ARTIFICIAL INTELLIGENCE,MACHINE LEARNING, ELECTRICAL ENGINEER

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SKILLS

ARTIFICIAL INTELLIGENCE

- **Natural language processing (NLP)** - Use state of the art algorithms, such as **hugging face transformers, fastai** and traditional NLP algorithms and deploy with **AWS** using EC2 instance
- **Computer Vision** - Use **tensorflow, opencv,mediapipe** and **keras api** to build computer vision web apps with **html, css** and **javascript** and deploy it for production
- **Reinforcement Learning** - I build intelligent agents on virtual environments to maximize reward on particular situations using state of the art algorithms like **DDPG**

DATA SCIENCE & ML

- Build stock market predictor models using **RNN, FBProphet** and **streamlit**
- Use **EDA** for robust data analysis and deploy the graphical analysis using **flask** for web apps
- Use **Tableau,SQL** and **MySQL** for quick analysis of Data.
- Deep Understanding of all machine learning algorithms like supervised and unsupervised ml models for buiding data predictor models

ELECTRICAL & OTHER

- **C++, C, MATLAB, Crocodile, Solidworks, Altium Design, AUTOCAD, Data Structures and Algorithms, Block Chain, Python**

80 + PROJECTS

HEALTHIT

- Online **HEALTH** social system that is powered by **Artificial Intelligence**

DIGITAL SECURITY SYSTEM

- School security system for face ID recognition

UNIVERSITY OF MURANGA

BSc Electrical & Electronics Engineering
Sep 2018 - 2023 | EXCELLENT RESULTS

EXPERIENCE

Muranga University | Artificial Intelligence Engineer | Muranga

Feb - Sep 2021

- Created an NLP AI model Q-BOT that is trained with the Universitys data that is capable of answering any question related with the schools information,The model was created using **BERT** model from **hugging face transformers** that gave a significant accuracy of **90%**
- Build an AI powered facial id recognition system using **media pipe** and **facial recognition api** to help detect students joining the school and save their names in a database improving security in the school
- Created a Social Distancing Detector using **YOLO** and **OPENCV** that helps to prevent spread of **COVID**, It works with the help of **Computer Vision Technology** and signals an alarm when **COVID-19** distance protocols is not observed

MUTTEC | Tech Club Cofounder | Muranga

Jan - Dec 2019-2021

- Created a Tech Research club in our Univesity that Unites brilliant students who have different Technological skills to come together and solve various technological problems

Muranga | Machine Learning Tutor | Muranga

Jan 2020-Date

- Helped Univesity students in their Projects related to machine Learning and Artificial Intelligence and improved the overall performance of their models
- Have 2 years of experience in teaching Machine Learning to students with hands on projects that would enable them to meet industrial needs
- Improved performance to students who studied machine learning in the university as a unit
- Created complex AI projects with students who took part in my Machine Learning program to have a wide view of understanding complex data

Free Lancer | Data Science, Machine Learning, AI | Nairobi

Feb 2020 - Apr 2

- Designed complex computer vision, AI systems and solved different data science projects for different people around the world
- Worked with different teams around the world to try and solve problems related to Data Science,Machine Learning and Artificial Intelligence

OLMEC | Control Engineer | Nairobi

Jan - March 2022

- Designed and built reverse osmosis control system for water purification
- Took part in analysis of bottle rinser system and improved its efficiency working performance by **20%**
- Constructed the milk ATM system and improved its overall working condition by **30%**

AWARDS AND CERTIFICATIONS

.IBM AI Enginnering Specialization Certification,Microsoft,Stanford,University of Toronto, SIEMENS

.UDEMY Artificial Intelligence Expert Certification Program,
github:github.com/Godwin_45

.Undergraduate & Masters Asia Experience Program