LU HTOO KYAW

MACHINE LEARNING ENGINEER

CONTACT INFO

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SKILLS

Machine Learning
Computer Vision I Time Series Analysis I Reinforcement Learning

Data Science
Inferencial Statistics I Bayesian Statistics

Frameworks
PyTorch I TensorFlow I Sklearn I OpenCV I Gym

Programming Languages
Python I JavaScript I PHP I C++

Unix/Linux
CLI I Bash Script

Version Control
Git I Github Actions I DVC

Database
MySQL I MongoDB I SQLite

Frontend
React JS I Vue JS I Streamlit

Backend
Node JS I Django I Flask I FastAPI

Development Operations
Docker I Kubernetes I GCP

LANGUAGES

English
Speaking I Listening I Reading I Writing

REFERENCES

Available upon request.

PROFILE

I am a Machine Learning Engineer, mainly experienced in development especially associated with Computer Vision, Time Series Analysis and passionate about all sorts of Machine Learning subjects. Being able to prove enthusiasm to take on any task to support the project team and enhance the team progress. Offer strong coding skills, vast knowledge of development materials, and confidence to overcome strict deadlines.

EXPERIENCE

MYANMA AWBA
On-site, Aug 2022 - Present

GEOSPATIAL MACHINE LEARNING RESEARCHER, INTERNSHIP

My tasks and duties are to perform various GIS and remote sensing operations for obtaining geospatial datasets and to research deep learning models fitted for those datasets.

OMDENA
Remote, Apr 2022 - Present

BONDY: MACHINE LEARNING ENGINEER, VOLUNTEER

Main objective was using AI to monitor trees during reforestation process in Andramasina district, Madagascar along with 30 collaborators from over 20 countries. During modelling process, we used CVAT tool for manual labeling and unsupervised methods for automatic labeling to drone images which were then used in experimenting models such as UNet, UNet++ and DeepLabv3 to segment trees in the area. Inferenced drone images were later combined with OpenDroneMap software to achieve field level estimation of the area. We used Google Earth Engine to obtain Sentinal-2 images and extract NDVI time series for charting purpose. Finally, a dashboard was build with Streamlit to provide our client insights. My participation was mainly in model building but I also contributed significantly in data collection and pipeline orchestration.

DR-CADX: MACHINE LEARNING ENGINEER, VOLUNTEER

The mission of the project was using AI to detect cervical cancer for women with inability to afford pathological tests in Africa, accompanied by 50 collaborators around the globe. We researched wide range of available datasets of microscope cytological image slides to build classification model corresponding with examining cells. We experimented some backbone architectures such as ResNet, RegNet, InceptionNet and VGGNet to extract feature representations so that they can be used in our custom-built neural architectures. I engaged a great deal of architectural researching and model implementation.

SPARK FOUNDATION
Remote, May 2022 - Jun 2022

COMPUTER VISION & IOT, INTERNSHIP

I built two models in this program. The first one is social distancing detection. I firstly obtained urban drone image dataset from Kaggle and annotated people with CVAT, then I used prepared dataset to train YOLOv5. Final result was the calculation of distance between each person corresponding with drone elevation. The second model is face mask detection which I also used dataset from Kaggle but I trained SSD model from TFOD.

EDUCATION

UNIVERSITY OF INFORMATION TECHNOLOGY
Feb 2019 - Feb 2022

DIPLOMA IN COMPUTER SCIENCE

My passion lead me to the computer science and its infamous sub-branch, Artificial Intelligence.

UNIVERSITY OF YANGON
Dec 2014 - Dec 2019

BACHELOR'S DEGREE IN GEOLOGY

I learned all the basics of earth sciences throughout semesters of four.

SEAMEO CHAT REGIONAL CENTER FOR HISTORY AND TRADITION
Dec 2017 - Feb 2019

DIPLOMA IN ENGLISH LANGUAGE PROFICIENCY

I have taken numerous courses on six levels of english language proficiency.

CERTIFICATIONS

COURSERA
Specializations, July 2020 - Present

MACHINE LEARNING ENGINEERING FOR PRODUCTION (MLOPS)
Credential ID: 9AGVYPBRNTU3

GENERATIVE ADVERSARIAL NETWORKS (GANS)
Credential ID: LG6Z86YY3EWU

DEEPLEARNING.AI TENSORFLOW DEVELOPER
Credential ID: F5ZGQ824QGUQ

DEEP LEARNING
Credential ID: YB5FJEBQPBWC

PYTHON 3 PROGRAMMING
Credential ID: PYDF6Z923PQ8

APPLIED DATA SCIENCE WITH PYTHON
Credential ID: H8HDLSL7AMNU