Daniel Enemona Adama

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Machine Learning Engineer

SUMMARY

Daniel is a performance-driven and experienced Machine Learning Engineer who is proficient in python with 1.8+ years in designing and developing Machine learning and Deep learning pipelines for Computer Vision and Speech Recognition use-case capable of making critical predictions. He has knowledge in evaluating algorithms to improve performance, quality, and accuracy for Regression (Linear/Logistic), Object Detection, and Classification (Binary/Multi-label), Recommender Systems (Content-based). Skilled at optimizing Convolutional Neural Networks and employing Deep Learning methodologies to ensure effective strategy formulation and implementation. Looking forward to applying the acquired gamut of skills to a challenging role in the Machine and Deep learning space.

PROFESSIONAL EXPERIENCE

Machine Learning Intern — Feb '21 - Present

TalenQ Pvt Ltd — Remote Work

- Researched and Implemented a **Speech Recognition pipeline** with **deep speech**, **webrtc**, **pyaudio**, etc. for a real-time video conferencing platform.
- Developed a **Face** and **Eye-tracking algorithm** including **Face mask detection** for **real-time purposes** with **OpenCV**, **Tensorflow**, etc.
- Utilized **Deep Learning packages** like **Tensorflow**, **Keras**, **OpenCV**, **Dlib**, and **Face recognition** for **Computer Vision use cases**.
- Reports **feedback** to the team on the progress of the project
- Worked with **3** different pre-trained models which are **ResNet50**, **EfficientNetB1,** and **MobileNet V2**.
- Created various charts in **Jupyter Notebook** using **Matplotlib** to perform a preliminary analysis on the collected data

IoT & Computer Vision Intern — Mar '21 - Apr '21

The Sparks Foundation — Remote Work

- Downloaded image data from Google and Kaggle for training purposes.
- Trained **2710 images** on my local machine and got a **98%** accuracy
- Built a real-time **Covid-19 Face Mask Detection system** for the detection of a person with a mask or not

Machine Learning Intern — Dec '20 - Feb '21

CodeTrophs — Remote Work

- Deployed ML algorithms like **Naive Bayes**, **SVM**, **Random Forests**, **Logistic Regression**, etc.
- Scrapped data from **6** different websites.
- Transformed raw data to conform to assumptions of machine learning algorithm.
- Investigated available resources to prepare more useful project plans.
- Constructed web applications to make critical predictions.
- Carried out day-to-day duties accurately and efficiently.
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KEY SKILLS

• Artificial Intelligence • Machine Learning Algorithms • Tensorflow • Deep Learning • Neural Networks (CNN) • Supervised Learning • Unsupervised Learning • Natural Language Processing (NLP) • Image Processing • Predictive Modelling & Analysis • Data Mining • Computer Vision • Speech Recognition

Technical SKILLS

- **Machine Learning and Deep Learning:** Linear/Logistic Regression, Classification (Binary and Multilabel), Model Deployment, Modeling and Evaluation Techniques, Web Scraping, Data Manipulation, and Analysis
- **Software and Programming: Python (Scikit-learn, Numpy, OpenCV, Mediapipe, Pytesseract, Matplotlib, Pyaudio, Seaborn, Deep Speech, Face_recognition, Dlib, Imutils, Pandas, Imutils, Tensorflow 2, Keras, Caffe, Nltk, Statsmodels, Glob, BeautifulSoup)**, Git, Jupyter Notebook, ·Microsoft Office
- **Basics**: HTML

EDUCATION

Bachelor of Engineering in Information and Communication Engineering — Aug '15 - Apr '21

Covenant University — Ogun State, Nigeria

CGPA: 3.67/5

- Majored in Information and Communication Engineering

Certifications

- **Neural Networks and Deep Learning**, **Deeplearning.ai**, Online - Jul 2020-Aug 2020
- **Data Science Course 2020**, **365 Data Science**, Online – May 2020-Dec 2020
- **OpenCV Basics — OpenCV101**, **Pyimagesearch**, Online – May 2021-May 2021
- **Basic Image Processing Operations — OpenCV 102**, **Pyimagesearch**, Online – May 2021-May 2021

Telecommunication Engineering Intern
Feb '19 - Oct '19

Centre for Satellite Technology Development
Abuja, Nigeria

- Cooperated with a team of **6** to design a **drone** for the fertilization of farm crops through the use of Satellites.
- Volunteered with a team of **8** to the building of a Radio Frequency (RF) antenna to communicate via abandoned Satellites.
- Participated in an ongoing project that detects any airplane from a distance that crosses over NASDRA

Machine Learning Projects

AI Body Decoder System
Jun '21 - Jul '21

https://github.com/danielAdama/AI_Body_Decoder

Successfully built an Artificial Intelligent Body Decoder System using Sklearn, OpenCV, etc. to identify when a person is Sad, Happy, Neutral, Wakanda and Victorious.

Covid-19 Face Mask Detector
Mar '21 - Mar '21

https://github.com/danielAdama/Covid-19-Face-Mask-Detection

Successfully completed a Covid-19 face mask detector using deep learning frameworks to identify whether a person is with a face mask or not in real-time.

Keyword Extraction Project
Feb '21 - Jan '21

https://github.com/danielAdama/Keyword-Extraction-project

Successfully built a model for automated tag extraction that simplifies the process of identifying relevant terms inside unstructured text.

Hand Sign Recognition
May '21 - May '21

https://github.com/danielAdama/Hand_Sign_recognition

Successfully completed a Hand Sign Recognition System using Sklearn, OpenCV, etc. to identify gestures like Cool, Peace, Hi, and One.

Optical Character Recognition with Pytesseract
May '21 - May '21

https://github.com/danielAdama/OCR_pytesseract

Successfully achieved an Optical Character Recognition with Pytesseract to appreciate text in an image and print it out in real-time.

Sarcasm Classifier
Jan '21 - Jan '21

https://github.com/danielAdama/Sarcasm_detection

Successfully finished a sarcasm sentiment analysis detector using deep learning frameworks to classify whether a sentence is sarcastic or not.

Reddit Flair Detector
Dec '20 - Jan '21

https://github.com/danielAdama/Reddit-Flair-Detector

Successfully accomplished a multilabel classification text machine learning model classifier from scratch while scrapping live data from reddit which is then integrated into a web application so that users can send a subreddit URL to predict the flair of a post in real-time.

- **Histogram — OpenCV104**, **Pyimagesearch**,
  Online – May 2021-May 2021
- **Fundamentals of Deep Learning Object Detection — Object Detection 201**, **Pyimagesearch**,
  Online – May 2021-May 2021
- **Bounding Box Regression — Object Detection 202**, **Pyimagesearch**,
  Online – May 2021-May 2021

Accomplishments

- Collaborated with a team of 2 in the development of a Data-backed and Internet of Things enabled optimal shallow root crop Irrigation system.