Daniel Enemona Adama

Machine Learning Engineer

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SUMMARY

Daniel is a performance-driven and experienced Machine Learning Engineer with a Degree in Information and Communication Engineering who is proficient in python with **2+ 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), Classification (Binary/Multi-label), Object Detection and Tracking, Natural Language Processing (Sentiment Analysis and Named Entity Recognition), and 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

Software Engineer Oct 2021 - Present
Secured Records Management Solutions LTD, Abuja, Nigeria

Machine Learning Developer Feb 2021 - Present
TalenQ Pvt Ltd, Bangalore Urban, Karnataka, India

- Completed a real-time **Face Recognition system** that recognizes and tags known faces accordingly with **Dlib**, **OpenCV**, **Imutils**, etc.
- Researched and Implemented a **Speech Recognition pipeline** with **Deepspeech**, **Webrtcvad**, **Pyaudio**, etc. for a **real-time video** conferencing platform.
- Developed a **Face** and **Eye-trackingalgorithm** including **Face mask detection** for real-time purposes with OpenCV, **Tensorflow**, etc.
- Utilized Deep Learning Frameworks 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 2021 - Apr 2021
The Sparks Foundation, Singapore, Singapore

- 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 2020 - Feb 2021
CodeTrophs, New Delhi, Delhi, India

- **Deployed** Machine Learning algorithms like Naive Bayes, SVM, Random Forests, Logistic Regression, etc.
- Scrapped data from diverse websites.
- Transformed raw data to conform to assumptions of **machine learning algorithm.**
- Investigated available resources to develop more useful project plans.
- Created a web application to make critical predictions.

- Carried out day-to-day duties accurately and efficiently.

Telecommunication Engineering Intern Feb 2019 - Oct 2019

Centre for Satellite Technology Development, Abuja, Nigeria

- Cooperated with a team of **6** to develop 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

EDUCATION

Bachelor of Engineering (B.E.) –
Information and Communication Engineering Aug 2015 - Jul 2021

Covenant University, Ota, Ogun state, Nigeria.

CGPA: **3.67/5**

KEY SKILLS

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

TECHNICAL SKILLS

- **Machine Learning and Deep Learning**: Linear/Logistic Regression, Classification (Binary and Multi-label), Model Deployment, Modelling 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
- **Database:** Microsoft SQL
- **Application development tools**: Flask, HTML5
- **Deployment**: Heroku
- **And Version control with Git**.

Machine Learning Projects:

AI-based Sentiment Analyser deployed using Flask May 2021 - May 2021

https://sentimentpredictions.herokuapp.com/
https://github.com/danielAdama/sentiment_app

Completed and deployed an AI-based Sentiment Analyser on **Heroku** using Nltk, Sklearn, Flask, etc. The application takes a user's review as input and then measures the attitude/sentiment of that user towards the aspect of a movie which can either be Positive or Negative.

Hand Sign Recognition May 2021 - May 2021

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.

Keyword Extraction Project Feb 2021 - Feb 2021

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.

LICENSES & CERTIFICATIONS

Fundamentals of Deep Learning Object Detection — Object Detection 201 2021
PyImageSearch

Basic Image Processing Operations — OpenCV 102 2021
PyImageSearch

Neural Networks and Deep Learning 2020
deeplearning.ai

Data Science Course 2020 2020
365 Data Science