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Daniel Enemona Adama
Machine Learning Engineer

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I am a **Software Engineer** with **1+ years** of expertise in **.NET** Back-End development and **3+ years** of experience as a Machine Learning Engineer who specializes in **Data Analytics**, **ETL** and **Computer Vision**, proficient in Python, C# and SQL.

SKILLS

Tools and Languages	**ASP.NET Core**, .NET Core, PostgreSQL, SQLite3, Microsoft SQL Server, MySQL, **JavaScript**, SQLAlchemy, **Experiments Tracking, Logging and Model Registry (MLflow)**, Apache Spark (PySpark), Python (Scikit-learn, Pytest, Numpy, OpenCV, Mediapipe, GridSearchCV, Pytesseract, Matplotlib, Pyaudio, Seaborn, Deep Speech, Face recognition, ResNet50, EfficientNetB1, and MobileNet V2, Dlib, Imutils, Pandas, Imutils, Tensorflow 2, Keras, Caffe, Nltk, Statsmodels, Glob, BeautifulSoup), C# (Entity Framework Core, ExcelDataReader, xUnit test), ML.NET, **Continuous Integration (Circleci)**, **Docker**, Git, Linux, Visual Studio Code, Gradient boosting algorithms, Gradient Boosting, XGBoost, LightGBM, Random Forest, Decision Tree, Jupyter Notebook, Heroku, **Tensorflow**, Web Scraping, HTML/CSS, Test (Pytest, Unittest), API Testing Tool (Postman)
Technical Skills	Classification (Binary and Multi-label), Pose estimation **(MediaPipe)**, **Bayesian Hyperparameter (Hyperopt)**, Regression(Linear/Logistic), Machine Learning Lifecycle management (MLOps), Model Deployment, Modelling and Evaluation Techniques, Clustering (Kmeans), Data Manipulation and Analysis, **Deep Learning**, **Neural Networks**, API Development, Natural Language Processing (Sentiment Analysis), and Recommender Systems (Content-based, Collaborative Filtering), **Semi-Supervised Learning (SSL) for Data Labeling**, Software Development, Image Processing, Data Mining, Computer Vision, Speech Recognition
Communication	English (native), French(basic)

PROJECT SUMMARY

NYC Taxi Trip Duration	Sklearn, Pandas, Numpy, Seaborn, Matplotlib.	Completed the New York City Taxi trip duration and achieved an **R squared of 0.9993** and a **Root mean squared error of 0.214** to predict the trip duration for your taxi driver to your location which can be Uber, Bolt etc. https://github.com/danielAdama/NYC_taxi_trip_duration
Ecommerce-website	C#, ASP.NET MVC-6, Javascript.	Completed a website that allows people to buy and sell physical product. Through an e-commerce website, a business can process orders, accept payments, manage shipping and logistics, and provide customer service. https://github.com/danielAdama/Ecommerce-product/tree/features
AI Sentiment Analyser	Sklearn, Pandas, Flask, Nltk.	Completed and deployed an AI-based Sentiment Analyser on Heroku. 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 https://sentimentpredictions.herokuapp.com/ https://github.com/danielAdama/sentiment_app
Vision People Counter	Pretrained (Caffe Face-Detector), OpenCV, Spacy.	Successfully Developed a system that utilizes a deep learning pre-trained model (Caffe face detector) to detect faces, assign counts (IDs), and track individual persons as they move in real-time using OpenCV, Caffe, Spacy, Numpy, etc. The project counts how many people pass through a certain location. https://github.com/danielAdama/real-time-vision-counter

RECENT WORK EXPERIENCE
BackEnd/Machine Learning Engineer   **Sep 2022 — Present**
Secured Records Management Solutions LTD   *Lagos, Nigeria (Remote)*

Data Scientist   **Oct 2021 — Sep 2022**
Selbolt   *Lagos, Nigeria (Remote)*

- Responsible for building and improving the prediction models with Sklearn, **Pandas**, TensorFlow, Gradient Boosting Algorithms, **NLTK**, OpenCV etc.
- Assessed data quality and **cleansed data** for further processing.
- Used data-driven insights to reduce transportation costs.

Machine Learning Developer   **Feb 2021 — Oct 2021**
TalenQ Pvt Ltd   *Bangalore Urban, Karnataka, India (Remote)*

- 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-tracking** algorithm 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 (Remote)*

- Downloaded Image data from Google and Kaggle for training purposes.
- Trained **2710 images** on my local machine and got a **98 percent** 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 (Remote)*

- **Deployed** Machine Learning algorithms like Naive Bayes, SVM, Random Forests, Logistic Regression, etc. on Heroku
- Scrapped data from diverse websites with Python Scrapy.
- 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**
Grade: Second Class Upper Division
Covenant University   Ota, Ogun state, Nigeria

ACHIEVEMENTS
- Participated in the **Analytics Vidhya** JOB-A-THON competition and got a position of **454/1181 participants**.

CERTIFICATIONS

Complete guide to ASP.NET Core MVC (.NET 6) (Udemy)	Jan 2023
Getting started with Docker (Simplilearn)	Jan 2022
Machine Learning Certification Course (Analytics Vidhya)	Jan 2022
Neural Networks and Deep Learning (Deeplearning.ai)	Aug 2020
Data Science Course 2020 (365 Data Science)	Dec 2020
OpenCV Basics - OpenCV101 (Pyimagesearch)	May 2021
Bounding Box Regression - Object Detection 202 (Pyimagesearch)	May 2021
Fundamentals of Deep Learning Object Detection - Object Detection 201 (Pyimagesearch)	May 2021