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Fields of Interest

Applied Data Science and Machine Learning

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MICHAEL DUBEM IGBOMEZIE (Applied Data Scientist)

NOTABLE PROJECTS

Citizens' Voice Platform

This project is the proof of concept (POC) of a bigger idea, which is based on raising awareness amongst the people on their rights and powers as "the people", helping them understand the government structure, get to know their leaders, and make their voices a lot more audible. It focuses on visualization of citizens' sentiment and trending discussions (using PowerBI dashboard) which is automatically and periodically predicted (using NLP, Tensorflow, Pytorch SimpleRNN, LSTM, BERT etc.) and extracted (using Gensim LDA) respectively, for technical and non-technical users. This data is automatically and periodically extracted (using Twitter API and GitHub Actions) from citizens' social platforms and stored using AWS RDS. These results and data are also made available to technical users using a REST API and Python Third Party Library (TPL). Deployment was done on Heroku, Pypi, AWS, Digital Ocean and Docker.

Report Link: Conclusion Report Posted on LinkedIn , Report Link on GitHub

Dashboard: Published PowerBI Dashboard

Phase 1 Repo: Phase 1 GitHub Repository , Phase 1 LinkedIn Article

Phase 2 Repo: Phase 2 GitHub Repository , Phase 2 LinkedIn Article

Tools Used: AWS RDS, PGAdmin4, TwitterAPI, FastAPI, VSCode, Heroku, Pypi, BERT, Gensim, Tensorflow, Pytorch, Scikit-learn, Docker, Digital Ocean (Kubernetes), GitHub Action, Git, Ubuntu 22.04, GPU Tesla T4, PowerBI (etc.)

Independent National Electoral Commission (INEC) Fraud Test (ongoing)

This project is about collating the images of registered voters, transforming them and executing a Convolution Neural Network on it to identify the underage voters, and scraping a sample or the entire dataset of registered voters from INEC website to identify duplicate names, and check know how these errors are distributed across the country.
https://github.com/George-Michael-Dagogo/Inec_fraud_test

Selection-Methods-PythonTPL

Third Party Library (TPL) for selecting the optimal features using the various selection methods including stepwise algorithm amongst others
https://github.com/dub-em/Selection-Methods-PythonTPL

https://pypi.org/project/Selection-Method/

UK Unemployment Rate Time Series ARIMA Model Project

This project focuses on gathering time series data for the UK Unemployment Rate, transforming the data, building a suitable ARIMA model for the data, forecasting future values using the built model, and comparing this forecast with the real world outcome
https://github.com/dub-em/UK-Unemployment-Rate-Time-Series-ARIMA-Model-Project-

Customer Loan Application Classification

This project involved the cleaning, descriptive analysis of a customer loan dataset, and the implementation and comparison of various classification algorithms including KNN, Decision Tree, SVM and others for prediction outcome of loan payment.
https://github.com/dub-em/Loan-Application-Classification

Automated Web Application for Predicting High Impact Forex Economic News Release

This project entails the use of Beautiful soups and Selenium APIs to scrape an Economic News Release website of historic data of various interdependent news releases, loads (updates) these extracted and transformed data into an IBM DB2 database, and then applies classification and regression machine learning algorithms on the updated database, in order to predict the most impactful news releases in the Forex Calendar.

https://github.com/dub-em/Automated-Web-Application-for-predicting-high-impact-Forex-Economic-News-Release

NOTABLE PROJECTS (cont'd)

Location Segmentation for Restaurant Planning

Implementation of cluster algorithm to group locations for planning. This method could be applied to customers, for tailor-made services.
https://github.com/dub-em/Segmentation-for-a-Restaurant-Location-Planning

Camera Product Survey Analysis

This is the analysis of a product survey for a recording device. This product was intended to help increase personal survey to reduce the various danger in our society.

https://github.com/dub-em/Camera-Product-Survery-Analysis