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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

Election-Campaign-Application

Phase 1: This project is the first phase of an intended 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.

Project Sub-sections

-Election Database: Automating data extraction, wrangling and loading process into an AWS RDS Instance.

-Research Question API: Deployed API which analyses the data and answers research questions, using NLP algorithms. (https://research-questions-api.herokuapp.com/docs#/)

-Election Campaign TPL: A library deployed to support the API in Jupyter environment https://pypi.org/project/election-campaign/

Repo: https://github.com/dub-em/Election-Campaign-Application

LinkedIn Article: https://www.linkedin.com/pulse/citizens-voice-michael-igbomezie/

Phase 2: This phase focuses on transforming the data extracted from the previous phase using Gensim word2vec, using it to build an ensemble (Tensorflow SimpleRNN, LSTM etc.) to run automated and periodic continuous sentiment analysis and text summarization to answer the project research question in-depth. This periodic prediction using the custom trained model is scripted, scheduled and used to build a Docker image which is in turn hosted on Digital Ocean.

Repo: https://github.com/dub-em/Election-Campaign-Application-Phase2

Implementation: https://github.com/dub-em/Election-Campaign-Application-Phase2-Implementation

GitHub Action Workflow: https://github.com/dub-em/Sentiment-Prediction-Worflow

Docker Image: https://hub.docker.com/r/dub3m/citizens-voice

LinkedIn Article: https://www.linkedin.com/pulse/citizens-sentiment-michael-igbomezie

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

NOTABLE PROJECTS (cont'd)

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

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