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GitHub:
https://github.com/dub-em
Pypi:
https://pypi.org/user/Dubem/

Fields of Interest

Applied Data Science and Machine Learning, Computer Vision, NLP, AI in Renewable Energy

Referees

Engr. Dr. Terry Henshaw
Data Analyst Consultant
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MICHAEL DUBEM IGBOMEZIE (Applied Data Scientist)

EDUCATION

Universita' degli Studi dell'Aquila (2021 – present)
MSc. Applied Data Science and Business Analytics (89%)

CERTIFICATIONS

Mathematics for Machine Learning, Imperial College (Aug 2021 – Oct 2021)

https://github.com/dub-em/Imperial-College-Mathematics-for-Machine-Learning-Certificates

Data Science Professional, IBM (Jan 2021 – May 2021)

https://github.com/dub-em/IBM-Data-Science-Professional-Certificates

NOTE: More MOOC Certificates relevant to my field can be found on my GitHub profile.

TECHNICAL SKILLS

Programming Languages: Python (Pyspark included), SQL (Postgres, MySQL), SparQL

Script/Source Code Building: Jupyter, Spyder, Visual Studio, Atom, Bracket,

Version Control: Git, Alembic

Database Creation: AWS RDS, PGAdmin, MySQL Workbench, IBM DB2, ERDPlus, Azure Database, GCP SQL

Cloud Services: AWS EC2, Microsoft Azure, Google Cloud Platform, IBM Cloud, Heroku, Digital Ocean, GitHub Action

Container Services: Docker

Visualization: Matplotlib/Seaborn, Power BI, Tableau, Excel

Current specialties: Machine Learning and Statistical Learning, Natural Language Processing and Deep Learning, Big Data, Time Series (ARIMA) Model, Database Creation (ER Diagram, Schema Mapping, DDL/DML, Cloud Deployment), Network Analysis and Combinatorial Optimization, Third Party Library and API Development and Deployment, Cybersecurity.

WORK EXPERIENCE

Data Analyst - Knowledge Beyond Borders, Abuja-Nigeria (09/2019 - 08/2021)

- I worked with my manager to apply descriptive analysis, factor analysis and hypothesis testing on research data, in order to proffer solution to the downtime experienced by MTN communications system.

NOTABLE PROJECTS

Election-Campaign-Application

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/

Election-Campaign-Application Phase 2(ongoing)

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

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

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

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

Selection-Methods-Python Third Party Library (TPL)

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-

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

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

NOTE: Many other Data Science projects (involving customer segmentation, statistical third party library development and deployment etc.) can be found on my GitHub profile. I am also open to relocation and traveling.