TAIWO OWOSENI, MDS

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Project Links: Interactive Netflix Dashboard | ML Feature Interpretation | Real-time Data pipeline

SKILLS

AWS Technologies: Kinesis, Lambda, Glue, Athena
Applications: Rstudio, PowerBI, Git, Jupyter Notebook, Tableau, Excel, Docker
Libraries: Numpy, Pandas, Pytorch,Tensorflow, Scikit-Learn, Ggplot, Dplyr, MASS, Tidyverse, Numpy, Scapy, NLTK, PySpark
Languages & Database: Python, R, SQL, DynamoDB, Hadoop, MapReduce
Technical Skills: XGboost, Regression, A/B experiments, Statistical Tests, ANOVA, Decision Trees

EDUCATION

Master of Data Science — Sep '21 – Jun '22
University of British Columbia, Vancouver, BC, Canada

Bachelor of Technology, Computer Science — Jan '13 – Oct '18
Federal University of Technology, Akure, Nigeria

PROJECTS

Electronic Medical Record (EMR) - Medical Specialty Classification — *SciScapy | Scapy*
Link
- Built a Classifier from *Kaggle dataset* that identifies several medical specialties, to improve the search for EMRs by tags
- Reduced medical specialties after EDA and used *Named Entity Recognition (NER)* to identify medical terminologies
- Implemented *XgboostClassifier* algorithm, with hyper parameter tuning to get an accuracy > 60%

Scheduled Real time Data pipeline to scrape Earth Quake Data — *Cronjob | Pandas | Github Action*
Link
- Built a real-time *data pipeline* integrated in python scripts, to ingest scraped twitters generated by @earthquakeBot
- Transformed scraped data (feature extraction, data validation, cleaning) and loaded data into relevant partitions
- Consumed loaded data in a script to creates a heat map showing the magnitude of earth quake in the world

Machine Learning Feature Interpretation and Analysis — *Light Gradient Boost | SHAP | Pandas | ELI5*
Link
- Interpreted feature importance of 3 ML models: Logistic Regression, Random Forest and LGB using Shap and Eli5
- Compared results of 3 models to analyse how the results affect predictions of the type of pumpkin seed

EXPERIENCE

Data Science Fellow — Jun '22 – Aug '22
Correlation One — *Remote, US*
- Developed algorithms to scrape > 50,000 observations to get a rich and diverse data set for analysis
- Wrote project frameworks and annotated > 1000 tweets to enhance reproducibility and efficiency
- Communicated analytic findings to leaders and 3 external partners using Tableau visuals

Machine Learning Engineer — Apr '22 – Jun '22
Trusting Pixel, Capstone Project — *Remote, Canada*
- Designed an ML model with 92% accuracy to distinguished between recaptured and original images
- Trained, validated and tested the model on 100s of images using Ridge Regression model
- Integrated final model in web app for easy use of the product by 3 members of the authentication team

Graduate Teaching Assistant: Database in Data Science — Feb '22 – Apr '22
Department of Computer Science, UBC — *Vancouver, Canada*
- Taught database concepts to 30 students leading to engaging question and answer sessions
- Provided meaningful feedback to 20 students after grading assignments and class works
- Administered exam to over 30 students to ensure students abided with exam rules

Business Intelligence Operations Analyst — Sep '20 – May '21
Airtel Nigeria — *Lagos, Nigeria*
- Wrote queries to investigate over 100 profiles and authenticated over 1,000,000 existing customer profiles
- Prepared reports that communicated market opportunities in12 areas over 6 months
- Constructed a scheduled task to analyse reconciliation data which grew team productivity by 30%

Lead Data Analyst — Jun '20 – Sep '20
OneHealth Nigeria — *Lagos, Nigeria*
- Identified customers' buying patterns and proposed sales strategies that elevated sales by 20%
- Sold 28 products three months before shelf life, by using basket analysis algorithm to analyse complementary products
- Created a functioning ETL pipeline to ingest data, this increased creation of visuals efficiency by 50%

AWARDS, ACHIEVEMENTS AND CERTIFICATIONS

AWS Community Builder
AWS Certified Developer – Associate
AWS Certified Cloud Practitioner
DS4A Ambassador – Correlation One
Most Distinguished Project – DS4A
Access bank prize for Innovation
SQL in Data Science – Coursera
UBC - MasterCard Foundation Scholar
Abdul-Kabir Aliu Foundation Scholar
LaptopForDevelopers – Data Science Track
Enyata Build Up