SARIMA CHIORLU

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Linkedin | Github

EDUCATION   Jan.2018 - Oct. 2024

The University of Lagos, Nigeria

Bsc. Systems engineering

SKILLS

- Programming Languages: Python, SQL, JavaScript
- Machine Learning Tools: Scikit Learn, TensorFlow, Pytorch, Kubernetes, Kubeflow, Spacy, Gensim, GCP, PySpark
- Database/Data Visualization: Power BI, MongoDB, PostgreSQL
- Soft skills: Leadership, Communication, and Problem Solving

Statistical methods and packages

SQL databases and database querying languages

Programming such as XML, ETL, or Javascript frameworks

Database design

Data warehousing and business intelligence platforms

R and/or SAS languages

Data mining, cleaning, and munging

Data visualization and reporting techniques

CAREER HIGHLIGHTS

Dr. Olukoya's Research Lab

Research Assistant Jan2022-Present

- Implemented Distributed Training and Automated Machine Learning workflows using Kubeflowon GCP.
- Contributed to the development of kubeflow use cases and drove the adoption of MLOps with kubeflowby67%.
- Created YAML configuration files and Dockerfiles to set up and run distributed training jobs on a Kubernetes cluster.
- Set up hyperparameter tuning experiments using Katib for machine learning training jobs on Kubeflow.
- Created containerized python scripts to log pipeline artifacts and metrics Kubeflow.
- Formulated technical documentation on machine learning workflows using Kubeflow for internal stakeholders.

Mavencode X Hamoye A.I. Lab

MLOps Engineer Jan2021-Jul2021

- Implemented Distributed Training and Automated Machine Learning workflows using Kubeflow on GCP.
- Contributed to the development of kubeflow use cases and drove the adoption of MLOps with kubeflowby67%.
- Created YAML configuration files and Dockerfiles to set up and run distributed training jobs on a Kubernetes cluster.
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- Created containerized python scripts to log pipeline artifacts and metrics Kubeflow.
- Formulated technical documentation on machine learning workflows using Kubeflow for internal stakeholders.

Data Science/MLOps Intern Jul 2020-Dec2020

- Created an end-to-end wine sommelier recommender pipeline on 150000 wine reviews using Kubeflow, Spacy, and LSTM
- Developed a spam detector model with an f1-score of 87% using data collated from 3 different Telcos in Nigeria.

EXTRACURRICULAR ACTIVITIES/PROJECTS

National Information Technology Development Agency, Unilag Nigeria

Head of Artificial Intelligence Development Mar 2022-Present

- Developed a POC for the optimization of traffic light signals in Nigeria using YoloV5 and Detectron2.
- Managed a team of 8 in developing machine learning projects centered around the improvement of the traffic situation, food economy, and language translation in Nigeria.
- Identified strategic partnerships to drive machine learning solutions to the market and society.

Data Scientist, NLP Applications in Stock News May2022-Jun2022

- Created an end-to-end topic modeling and knowledge graph pipeline on over 5000 rows of data scraped from finance news articles, Reddit, and Twitter using Spacy, Kubeflow, Docker, Selenium, Beautifulsoup, and Gensim.

Data Scientist, Rotten Tomatoes Big Data Analysis Feb2022-Mar2022

- Created a multi-class model with an accuracy of 65% on 1.3 million rows of movie reviews using Word2vec, and spark.
- Developed Laplace and Additive smoothing methods to evaluate the degree to which frequencies in short text files ranging from 1000 to 10000 words reflect the frequency over a large review corpus of about 10 million words.

Data Scientist, Team Alt Carbon July2021-Aug2021● led a team of five people to create a machine learning embedded application that minimizes emissions from power plants caused by equipment inefficiencies, which saves energy and reduces downtime.

Utilized Microsoft SPSS statistical software to track and analyze data.

Designed and built statistical analysis models on large data sets using Teradata.

Boosted sales by 17%.

Successfully interpreted data to identify key metrics and draw conclusions.

Proposed solutions to improve system efficiencies, leading to a 15% reduction in operating costs.

CERTIFICATIONS

- Tensorflow: Working with images
- Deep Learning Specialization
- TensorFlow Developer, DeepLearning.AI 2020
- End-to-End Machine Learning with TensorFlow on Google Cloud Platform, Google Cloud Coursera 2020
- Data Analytics Essential with Power BI, Udemy 2020
- Microsoft Excel for Data Analysis Certification 2020
- IBM Data Analyst