Mukhtar O. Raji

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WORK EXPERIENCE

Monmouth Cards Automatic Sports Card Reader   Remote

Computer Vision Software Engineer (Freelance)   November 2022 – August 2023

- Led a team of 4 to design, and build a website and desktop app to automate uploading of trading cards to several marketplaces including eBay and Shopify.
- Built a desktop app that scans card images, finds required tags from the found texts, scans Beckett to get the price of the card using the found tags and saves the card tags and prices into a database with the help of an API
- Utilized several python libraries such as OpenCV, PIL, pytesseract, PaddleOCR, requests, urllib, BeatifulSoup, regex, os, sys, shutil, playsound, pyinputplus and tools such as jTessBoxEditor and Serak tesseract trainer
- Performed series of optimizing techniques to conclude the project at 95% accuracy

Image Recognition App Design & Implementation   Remote

Computer Vision Software Engineer (Freelance)   November 2022 – December 2022

- Constructed a detailed design process with algorithm flowcharts, and expected design view of the final app
- Built the image recognition app's GUI using OpenCV, implemented object detection using a pretrained YOLO model and finally implemented color detection of detected objects using machine learning models
- Utilized several python libraries such as NumPy, OpenCV, os and sklearn
- Performed series of tests to ascertain the accuracy of the app which produced a final result of 90% accuracy

Database Administrator   Remote

Database Administrator (Freelance)   November 2022 – December 2022

- Performed tasks such as designing the database, installation and configuration while putting the best modelling and feature dependencies for the data into account
- Compiled several optimized SQL statements for performing tasks in accordance to the data provided
- Utilized PostgreSQL and pgAdmin for the SQL tasks
- Optimized the SQL queries to return results much faster than the regular queries first written, with about a 10% increase in response speed

Temperature Prediction System   Remote

Machine Learning Engineer (Freelance)   August 2022 – September 2022

- Built a system to accurately predict the temperature that can occur in a given place based on historical data
- Performed extensive research including feature selection and feature engineering to derive the most important features that are directly related to temperature prediction
- Utilized several python libraries such as NumPy, pandas, matplotlib, seaborn, and sklearn
- Optimized the best performing model to a high metric score of 92%
- Concluded the project with further proof to facilitate the adoption of the best ML model by companies to help plan their business needs better

Investment Diversification Consultancy — Remote

Data Analyst (Freelance) — July 2022 – October 2022

- Built a dashboard showcasing the prices of the company's investments over the years while also producing visuals of prices of other commodities alongside
- Conducted market research by analyzing the rise and fall of prices of invested commodities alongside other commodities and provided recommendations for possible investment diversification
- Utilized several python data visualization libraries in building the dashboard such as Panel, hvplot, holoviews, matplotlib and seaborn
- Investigated the outlook of the performance of the recommendations when utilized to be over 15% in returns on investments

Logic Programming — Remote

Python Programmer (Freelance) — July 2022 – August 2022

- Generated reports showcasing the difference in the response of action models of several credulous agents
- Built a python script that modelled each action model
- Built a conversational bot that can take the role of a receiver or announcer to model any action model with an accuracy of 96%

E-commerce Consultancy — Remote

Data Analyst (Freelance) — July 2022 – August 2022

- Generated reports showcasing the impacts of several features on e-commerce businesses
- Conducted market research by analyzing users and reviews data to better identify the statistics of the footprint of e-commerce businesses
- Performed several data analytical techniques to recognize the most important feature with a relationship similarity score of about 75%

Credit Card Defaulters Classification and Prediction — Remote

Data Scientist (Freelance) — April 2022 – May 2022

- Built a system that helped to formulate strategies and make better informed decisions on new applications of credit cards through machine learning recommendations
- Showcased company's customer features from the result of deep data analysis on the defaulters' data using standard data quality control and analytical techniques

- Built machine learning models for predicting defaulters with an accuracy score of more than 80%

Covid-19 Propagation Against GDP Analysis (US)   Remote

Data Analyst (Freelance)   April 2022 - April 2022

- Generated a detailed report providing insights into how covid-19 affected the GDP of all the US counties
- Performed exploratory data analysis on the data using python, NumPy and pandas, while factoring several data features that result in the total GDP of each county
- Produced amazing visualizations using matplotlib which to a high percentage of 90% supported the result of the analysis showcasing how several factors including the GDP were impacted through covid-19

Breast Cancer Classification Using Deep Learning   Remote

Data Scientist (Freelance)   March 2022 – April 2022

- Built a system for the classification of breast cancer images into cancerous cells and non-cancerous cells
- Utilized machine learning models in conjunction with transfer learning models specifically the VGG19, EfficientNetV2L and InceptionResNetV2 models
- Optimized the best performing model to predict with a high metric score of 94%

DJ NawtBoy CoverArt-Updater   Remote

Desktop App Developer (Freelance)   March 2022 – April 2022

- Built a desktop app for automatically updating cover arts of thousands of songs
- Utilized python libraries such as stagger, winsound, os and more for the desktop automation
- Optimized the manual cover art update time by over 97% also coupled with an accuracy of 100% for the cover arts updates

Topic Modelling For Social Computing Task   Remote

Data Scientist (Freelance)   March 2022 – March 2022

- Built algorithms for auto-processing social media tweets into groups
- Utilized python's natural language processing (NLP) libraries in conjunction with topic modelling techniques such as LDA and LSA to analyze and build a classification system
- Produced highly accurate results of above 91% accuracy in successful grouping of the tweets

Computer Vision Image Manipulation Task   Remote

Data Scientist (Freelance)   December 2021 – December 2021

- Built a system to produce custom thresholding of images using an exclusive mode of image manipulation techniques
- Utilized python image libraries such as OpenCV, matplotlib, skimage, SciPy and more, in performing the custom image manipulation
- Generated output images using the custom thresholding feature which were very similar to OpenCV's standard thresholding feature with an accuracy of nearly 95%

Product Consultancy   Remote

Data Analyst (Freelance)   December 2021 – December 2021

- Generated reports showcasing recommendations on how to better target customers with advertisements (ads)
- Conducted market research by analyzing products, reviews and users' data to better identify the statistics of the client's customers
- Investigated the outlook of the performance of the recommendations when utilized to be over 30% in successful retaining of new customers and 40% higher revenue

Rocks Classification Project   Remote

Data Scientist (Freelance)   November 2021 – December 2021

- Built a multi-class prediction system for classifying rocks into the appropriate type
- Built machine learning models such as GaussianNaiveBayes and DecisionTreeClassifier for the prediction of the rocks data into the right categories
- Optimized the best performing model to predict with a high metric score of 91%

Sentiment Analysis Project   Remote

Data Scientist (Freelance)   October 2021 – November 2021

- Built a system for auto-classifying the sentiments of general texts into positive, negative and neutral sentiments
- Utilized python's natural language processing (NLP) libraries in conjunction with recommended bag of words to build the sentiment analyzer
- Produced highly accurate results of above 90% accuracy in successful classification of input texts

Films Analysis   Remote

Data Analyst / Desktop App Developer (Freelance)   October 2021 – November 2021

- Generated reports showcasing features of the films data
- Utilized the use of python, csv, NumPy and pandas python libraries to analyze the data and produce insights into the statistics of several features of the data, such as the year of release, runtime and other several features
- Built a custom app that allowed for feature search which produced film result of distinct features with an accuracy of 100%

Hamoye AI Labs   Full-Time Remote

Data Scientist   July 2021 – November 2021

- Built and presented solutions using machine learning models to produce faster insights into data that other companies can use to make more informed decisions
- Collaborated with a team of 23 members to analyze and build machine learning models specific to Covid-19 patients and Airplane accidents
- Built several machine learning models for prediction with accuracy scores of more than 80%

EntryLevel   Full-Time Remote

Data Analyst   July 2021 – September 2021

- Created several insightful reports using learned skills of Excel, Google Sheets and Tableau
- Performed deep analysis and generated visualizations showcasing the performance of Udemy courses against revenue growth
- Investigated the outlook of the performance of the recommendations when utilized to bring about 27% increase in revenue

EasyPeasyStore Amazon Auto-Campaigns App   Remote

Desktop App Developer (Freelance)   March 2021 - May 2021

- Built a desktop app that automatically downloads Amazon campaigns data and provides insights into the data through auto-visualization with amazing graphs
- Utilized python libraries such as Tkinter, requests, urllib and more to interact with Amazon's Advertising API to pull the data and used matplotlib and seaborn library for producing the visualizations
- Optimized the manual data download time and graphs generation by over 95%

Emshol Auto-Attendance App   Remote

Desktop App Developer (Freelance)   October 2020 - January 2021

- Built a desktop app that automates the attendance of passengers of the client's bus shuttles
- Utilized python libraries such as Tkinter, os, openpyxl (Excel), psycopg2 (PostgreSQL) and more to automate the attendance from several text files into an excel sheet
- Optimized the manual attendance upload by over 98%

LEADERSHIP AND VOLUNTEERING EXPERIENCE

Professionals In Data   Remote

Team Lead (Volunteer)   July 2022 – Present

- Train aspiring data scientists and data analysts by providing mentorship and also leading group projects
- Past projects include 'Sentiment Analysis of Elon Musk's tweets: The effect on Tesla's stocks', 'Prediction of credit card defaulters using machine learning', and 'Human vs Machine-based Analysis: What affects the gross profit of IMDB's top rated 1000 movies?'

EDUCATION

University Of Ilorin   Kwara, Nigeria

Electrical/Electronics Engineering   October 2016 - December 2022

SKILLS & LANGUAGES

Technical Skills: SQL, Python, NumPy, SciPy, Pandas, Scikit-learn, Machine Learning, Matplotlib, Seaborn, Panel, hvplot, holoviews, Data Visualization & Storytelling, Excel, Tableau, Data Manipulation and Analysis, OpenCV, TensorFlow , Keras, Pytesseract, Computer Vision, Google DialogFlow, Natural Language Toolkit (NLTK), Gensim, Deap, Pattern, Textblob, Natural Language Processing (NLP), Artificial Intelligence, Git, Github, API Integration

Soft Skills: Problem Solving, Effective Communication, Teamwork, Time Management, Leadership

Languages: English, French, Arabic, Yoruba

Education

Work Experience (also specifically put skills)

Project Experience

Hard Skills

Accomplished X

As measured by Y

By doing Z

Also add cybersecurity projects

Add teaching at Darus and working at Maser