Nathaniel Obafemi

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EDUCATION

MASTERSCHOOL **New York**
Masters Data Analysis **Expected June 2023**
Relevant Coursework: Data Analysis, Machine Learning; Operating Systems; Algorithms; Artificial Intelligence

UNIVERSITY OF VENICE **Venice, IT**
Masters Environmental Science (Modelling) **Oct 2018 –Mar 2022**

WORK EXPERIENCE

PASSNFLY (An aviation company) **Barcelona, ESP**
Data Analyst/Research Intern **2022 - 2023**

- Built Tableau dashboard to visualize core business KPIs (e.g., Monthly Recurring Revenue), saving 13 hours per week of manual reporting work.
- Aggregated unstructured data from 20+ sources to build the foundation of a new product, which led to €250,000 in new revenue.
- Utilized skills in data analysis, machine learning, and artificial intelligence.

UNIVERSITY OF CADIZ, SPAIN **Cadiz, ESP**
Environmental Science Intern **Jan 2022 – Jun 2022**

- Conducted statistical analysis on 80% of environmental data to identify patterns and trends, resulting ting in an improved understanding of the local ecosystem.
- Cleaned and processed large environmental datasets (up to 100 GB) using software such as R or Python, improving data accuracy by 50%.
- Participated in quality control and assurance processes for data collection and analysis improving of data reliability by 60%.
- Conducted spatial analysis using QGIS to map and visualize environmental data, resulting in the discovery of previously unknown hotspots of pollution.
- Developed predictive models with 80% accuracy to forecast environmental outcomes.

FANMILK PLC, NIGERIA **Oyo, NG**
Environmental Technician **Feb 2016 – July 2018**

- Successfully conducted environmental monitoring and testing to support a project which resulted in a 95% reduction in air pollutants.

- Collected and analyzed water samples which led identifying and remediating of a contaminated site, resulting in an 80% reduction of hazardous waste.
- Conducted noise and vibration monitoring which led to identifying and remedying a noise complaint, resulting in a 100% satisfaction rate.
- Provided accurate and timely laboratory analysis of samples, including water, soil, and air quality parameters, and characterization of hazardous waste materials, resulting in a 95% accuracy rate.
- Developed and implemented a new laboratory process that resulted in a 30% reduction in laboratory analysis time and a 20% reduction in laboratory costs.
- Conducted field investigations to support a project which resulted in a 50% reduction of contaminants in soil and water.
- Prepared reports and reviewed project plans which led to the successful completion of several projects, resulting in a 100% completion rate.
- Provided technical support for a remediation project which resulted in a 50% reduction of contaminants in soil and water.

UNIVERSITY PROJECTS

ETL PROCESS FOR BANK CAP DATA **Mar 2023**

- This project involved extracting bank and market cap data from two JSON files, bank_market_cap_1.json, and bank_market_cap_2.json. The data was then transformed using exchange rate data from exchange_rates.csv, and loaded into a separate CSV file.
- Installed necessary libraries using "!mamba install" command.
- Downloaded the JSON files and exchanged rate data using "!wget" command.
- Read in the JSON files using pandas and concatenate them into a single DataFrame.
- Extracting relevant columns from the DataFrame, including "Name" and "Market Cap (US$ Billion)".
- Converted the market cap currency to USD using exchange rate data.
- Saved the transformed data into a separate CSV file.
- Created an "extract_json" function to extract JSON files.

INFINITY AUTOMOTIVE DATA ANALYSIS **Jan 2023**

- Worked on a dataset provided by Infinity Automotive, an American-based automobile part, and service provider, for industrial visit purposes.
- Ingested CSV files into a MySQL database, performed various analyses using SQL and Python, and used Power BI for plotting trends and creating charts (pie charts, bar charts) for demographic breakdown, downtime hours, etc.

ANALYSIS OF LAND-USE CHANGE AND ITS IMPACT ON BIODIVERSITY IN A PROTECTED AREA **Feb 2020**

- Collected and analyzed satellite imagery and land-use data for a protected area over 5 years using Python and QGIS.
- Conducted spatial analysis to map land-use changes and assess their impact on biodiversity, resulting in the identification of areas with a high risk of species loss.

- Cleaned and processed land-use data using SQL, improving data accuracy by 50%.
- Analyzed species count data from regular biodiversity surveys to assess the impact of land-use changes on species populations, resulting in the discovery of a 20% decrease in species richness in high-risk areas.
- Developed predictive models using R to forecast the impact of future land-use changes on biodiversity, with an accuracy of 80%.
- Assisted with writing reports and presenting land-use and biodiversity analysis results to stakeholders, resulting in the successful implementation of 2 policy recommendations.
- Participated in quality control and assurance processes for data collection and analysis using Excel, improving data reliability by 60%.
- Contributed to the development of educational materials and outreach activities to raise awareness about the importance of biodiversity and the impact of human activities on the environment.

TECHNICAL SKILLS

- SQL
- Python
- Tableau & Excel
- R
- QGIS
- MATLAB
- A/B testing
- Customer Service
- Chess-rating 1500

STRENGTHS

- ❖ Engaging Personality.
- ❖ Patient and Flexible.
- ❖ Delivering Results.

CERTIFICATIONS

- IBM: Exploratory Data Analysis for Machine Learning.
- IBM: Python Project for Data Engineering