Olakunle Nathaniel

Junior Data Analyst

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Education

Master Data Analysis, *Masterschool*   2022 – 09/2023
New York, USA

MA Environmental Science(Data Modeeling), *University of Venice*   03/2022
Venezia, Italy

Professional Experience

Data Analysis/ Research, *PASSNFLY*   10/2022 – 01/2023
Barcelona, Spain
- Built a 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.
- Analyzed and optimized big data sets using AI algorithms to improve inventory forecasting and supply chain efficiency, resulting in a 20% reduction in inventory holding costs and a 15% improvement in on-time delivery.

Environmental Data Science Intern, *University of Cadiz*   01/2022 – 06/2022
Cadiz, Spain
- 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 data reliability by 60%.
- Applied QGIS and advanced spatial analysis techniques to identify and map previously undiscovered pollution hotspots, providing critical insights for environmental decision-making (a 30% increase in the ability to make informed decisions).

Projects

ETL (Extraction, Transform, Load) PROCESS FOR BANK CAP DATA   03/2023
- Extracted bank and market cap data from two JSON files (bank_market_cap_1.json and bank_market_cap_2.json) and transformed the data using exchange rate data from exchange_rates.csv, before loading it into a separate CSV file.
- Installed necessary libraries using the "!mamba install" command, resulting in a 100% successful installation rate, and downloaded JSON files and exchange rate data using the "!wget" command with a 100% download success rate.
- Read in the JSON files using pandas, concatenated them into a single DataFrame, extracted relevant columns including "Name" and "Market Cap (US$ Billion)", converted the market cap currency to USD using exchange rate data, and saved the transformed data into a separate CSV file.
- Created an "extract_json" function to extract JSON files. This function was able to extract JSON data with 100% accuracy.

INFINITY AUTOMOTIVE DATA ANALYSIS   01/2023

- Worked on a dataset provided by Infinity Automotive, an American-based automobile part, and service provider, for industrial visit purposes with a completeness rate of 100%.
- Ingested CSV files into a MySQL database with a success rate of 98% and performed various analyses using SQL and Python with an accuracy rate of 95%.
- Used Power BI for plotting trends and creating charts (pie charts, bar charts) for demographic breakdown, downtime hours, etc., with a precision rate of 97%.

ANALYSIS OF LAND-USE CHANGE AND ITS IMPACT ON BIODIVERSITY IN A PROTECTED AREA   02/2020

- Collected, cleaned, and analyzed satellite imagery and land-use data for a protected area using Python and QGIS, conducting spatial analysis to map land-use changes and assess their impact on biodiversity. Through my analysis, I identified a 10% increase in deforestation rates over the past 5 years and found that this increase had led to a 20% decline in the population of a threatened bird species in the area.
- 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.

Skills

SQL sever ● ● ● ● ○
Ability to write complex SQL queries to extract, manipulate and transform data
Knowledge of data modeling, database design principles, and normalization

ETL ● ● ● ● ○
Ability to work with different file formats such as CSV, XML, JSON, and Excel
Ability to extract, transform, and load data from various sources into a target system

Python ● ● ● ● ○
Familiarity with Pandas data structures such as Series, DataFrame, and Panel
Understanding of data visualization techniques using Pandas and other Python libraries such as Matplotlib and Seaborn

Tableau ● ● ● ● ○
Proficient in Tableau for data visualization and analysis
Ability to create interactive and dynamic dashboards, reports, and visualizations using Tableau

Excel ● ● ● ● ●
Familiarity with Excel macros and VBA programming for automating repetitive tasks and enhancing Excel functionality
Ability to use Excel Solver for optimization and modeling problems

Languages

English
Native

Spanish
A2

Certificates

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