Data Analyst/Data Scientist

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LinkedIn   GitHub   Medium Page

JACKSON NAHOM

Skills

- SQL (HiveQL, Oracle, SQL Server, MySQL, Postgres)
- Python (Pandas, Plotly, Scikit-learn, Scikit-tda, Flask, Openpyxl, Numpy, Matplotlib, Shiny)
- Excel (XLookup, Conditional Formatting, Pivot Tables)

- Analysis (Regression Analysis, Machine Learning, Topological Data Analysis, Statistical Analysis)
- Cloud (GCP)
- Visualizations (Tableau, Power BI)

Work Experience

DATA ANALYST – Target   December 2022 - Present

- Created **ML model** to predict resale values of salvaged items through the Business-to-Business Auctions with Middle Mile DS Team.
- Designed **KPIs** for a Root Cause Analysis Dashboard to help **leadership** identify and analyze drivers of missed forecasts.
- Developed a **Python** framework to call Target's Greenfield **API**, reducing reporting time during peak seasons and providing key peak metrics to stakeholders. This initiative resulted in significant time savings and improved efficiency in daily reporting.
- Collaborated closely with the FDC analyst to understand and migrate processes from decommissioned database, resulting in a 2-hour reduction in manual input and improved overall efficiency.
- Leveraged Python libraries, including **pandas**, **duckdb**, and **HQL**, to conduct comprehensive quality checks on datasets, answer ad hoc requests to meet immediate business needs, and support data-driven decision-making.

ANALYTICS CONSULTANT – NYSTEC – Albany, NY   October 2021 - December 2022

- Spearheaded the development of internal **Python** tools to enhance data processing capabilities within the organization utilizing **cx_oracle**, **pandas**, and **SQL**.
- Streamlined New York State Medicaid Reconciliation efforts to determine over and under payment of claims by implementing automation using **Python**, **Tableau**, and **SQL**, resulting in 30 hours of weekly time savings.
- Devised and implemented a randomized sample program to assess **healthcare** provider claims for New York State's Children Transformation QA Program, evaluating critical parameters such as providers, service dates, claims cost, procedure codes, and rate codes.
- Demonstrated leadership by leading **Python** and **SQL** training initiatives for data analysts, enhancing their skills and productivity.

ASSOCIATE CONSULTANT – NYSTEC – Albany, NY   August 2020 - October 2021

- Developed critical COVID-19 data points and automated reporting based on executive requirements using **Excel**, **Python**, and **SQL.**
- Implemented automated COVID-19 data **ETL pipelines**, integrating various **APIs**, **Python**, and **Oracle DBs** for seamless processing.

CREDITS & INCENTIVES INTERN – HCA Healthcare – Nashville, TN   June 2019 – August 2019

- Developed comprehensive reports analyzing energy data to strengthen existing tax incentives for facilities, thereby facilitating their qualification to receive the incentives.

Projects

The Insight of Entropy in Soccer Matches   May 2023

- Applied Shannon Entropy to create a soccer match momentum metric, the model predicted match outcomes with 75.27% accuracy.
- The model showed comparable prediction accuracy using machine learning, performing similarly to **Random Forest**.

Mapper Algorithm for Feature Selection   December 2022

- Employed **Mapper Algorithm** powered by **DBSCAN** to develop a visual feature selection tool for machine learning models.

Latin Alphabet Character Prediction   November 2022

- Developed a classification algorithm using Scikit-TDA's **Risper** package for persistent homology using different scanning techniques.

Football Manager Machine Learning Predictions   December 2021

- Leveraged a range of **Machine Learning techniques** (MLP, Random Forest, K-Nearest Neighbor, Decision Trees, Gaussian Naive Bayes, and Logistic Regression) to predict outcomes based on questions.

Education

MASTER OF SCIENCE – University at Albany – Albany, NY
Majors: Data Science, 3.98 GPA

BACHELOR OF SCIENCE IN BUSINESS – Clarkson University – Potsdam, NY
Majors: Business Intelligence & Data Analytics, 3.37 GPA
Minors: Computer Science, Statistics, and Mathematics