Brandon Ropell

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GitHub: https://github.com/Bropell

Summary

Motivated individual that displays critical thinking and has exemplary problem-solving skills whether working independently or as part of a team. Efficiently handles workload by breaking down complex problems into smaller parts and streamlining each aspect of the process. Easily builds partnerships and positive relationships with others and knows how to leverage their strengths such that forward progress can be made by all parties. Maintains a high level of organization in all areas of the workplace.

Technical Skills

Software Languages: Python, JavaScript, R, HTML, CSS, SQL, VBA
Tools: Github, Jupyter Notebook, VS Code, RStudio, Tableau, Microsoft Office, Google Apps

Projects

**Asthma Analysis in California Counties |
https://github.com/Bropell/Asthma_Analysis_in_California_Counties**

- Developed a machine learning model that aimed to help determine what features, if any have a correlation with asthma rates in California counties

- Core responsibilities were to find data sources, clean the data, store data in a database, input data features into different machine learning models, and visualize the results

- Python, Jupyter Notebook, Tableau, PostgreSQL, Keras, Tensorflow

Mapping Earthquakes | https://github.com/Bropell/Mapping_Earthquakes

- Generates an interactive layer map that shows the differences between the magnitudes of earthquakes all over the world using GeoJSON earthquake data from the USGS website
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- Core responsibilities were to generate several tile layers as well as layers to toggle to see different map data using a Mapbox API.
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- JavaScript, HTML, CSS, GeoJSON data, Mapbox API

Amazon Vine Analysis | https://github.com/Bropell/Amazon_Vine_Analysis·
- Performed the Extract Transform Load (ETL) process on a dataset using Pyspark and connecting to an Amazon Web Services (AWS) Relational Database Service (RDS) instance. The transformed data was loaded into pgAdmin
.
- Core responsibilities were to determine if there was any bias towards favorable reviews from Amazon Vine members versus non-members
.
- Python, Pyspark, pgAdmin, AWS RDS

Experience

Analyst   **2018 – Present**
Long Island Analytical Laboratories Inc   Holbrook, NY
Analyze environmental samples for volatile compounds via GCMS (Gas Chromatography Mass Spectrometry). By working efficiently and utilizing critical thinking, the department can produce high throughput, data integrity and organization with only one person overseeing the daily operations.
Key Accomplishments:
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- Consistently pass NYS Proficiencies
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- Department Head

Archivist Aid   **2017- 2018**
School of Medicine   Stony Brook, New York
Coordinated with doctors and prepared organ specimens for medical school classes. Maintained an organized catalog of all samples.

Education

Boot Camp Certificate: Columbia Engineering, New York, New York

A 24-week intensive program focused on gaining technical programming skills in Excel, VBA, Python, R, JavaScript, SQL Databases, Tableau, Big Data, and Machine Learning.

Master of Science, Biomedical Engineering: Stony Brook University, Stony Brook, NY

Bachelor of Engineering, Biomedical Engineering: Stony Brook University, Stony Brook, NY