Caroline Delva

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Data Engineer from Columbia Engineering Data Analytics Bootcamp, who is proficient in AWS Postgres, Python, JavaScript, Web Development. Well-trained in data analysis, data visualization, machine learning, and deep learning.

EDUCATION:

COLUMBIA ENGINEERING DATA ANALYTICS BOOTCAMP, New York, NY
Data Science Certificate, October 2019

SKIDMORE COLLEGE, Saratoga Springs, NY
Bachelor of Arts in Psychology, May 2016

TOOLS/ PROGRAMING LANGUAGES

Python (Pandas, Matplotlib, SQLAlchemy, Numpy, SciPy, Json, Flask, Pymongo, PySpark, Tensorflow, Scikit-learn), SQL (PostgreSQL/ pgAdmin, AWS), NoSQL (MongoDB), Web Development (HTML, CSS, Bootstrap), JavaScript (D3, Plotly, Leaflet), Git, GitHub, Gitlab, Heroku

GITHUB PROJECTS: https://bit.ly/2KAgwEb

Suicide Rates Full-Stack Application (https://bit.ly/379IZeD) October 2019

Python (Flask, Pandas, Scikit Learn, Numpy, SqlAlchemy, Matplotlib, API Requests), Javascript (D3, Plotly), Postgres Database, Web development (HTML, CSS, Bootstrap)

- Developed a full-stack application to study suicide rates of 101 countries, in six continents, with six D3.js interactive graphs, six statistical and descriptive analysis , and four machine learning models
- Performed ETL that extracted, cleaned, and loaded the data to a Postgres database
- Rendered eight RESTful API of wrangled suicide rates data and 16 Bootstrap HTML pages with a Flask Server
- Developed seven interactive D3.js graphs, performed statistical analysis for each graph, and trained and tested three machine learning models that predicts suicide rates for each country

IMDB Movies Full-Stack Application (https://bit.ly/2qlVp2e) October 2019

Python (Flask, Pandas, Scikit-Learn), Tableau, Postgres Heroku Database/AWS, HTML, CSS, Bootstrap, Heroku

- Utilized of back-end and data visualization developer skills to help create a full-stack application that allowed investors to decide which movie to produce
- Loaded data to an AWS Postgres database by performing the ETL process, and then shared it with the front-end developer and the data analyst
- Created a Flask server, developed two interactive D3.js graphs and rendered nine RESTful APIs of IMDB movies data on a custom made HTML page that allowed users to better understand what metrics makes movies successful

Belly Button Biodiversity Full Stack Application (https://bit.ly/32R3itN) August 2019

Python (Flask, Pandas, Scikit-Learn), SQLite Database, HTML, CSS, Bootstrap, Heroku

- Created three interactive Plotly graphs for a full-stack application that stored sample data of people's navel microbe strains into an SQLite Database

Exoplanet Exploration (https://bit.ly/2Kp6o20) July 2019

Python (Pandas, Scikit Learn, Tensorflow)

- Trained and tested a logistic regression model, a support vector machine model, and a deep learning model that uses 19 exoplanet features to determine planets from thousands of possible planets spotted by the Kepler Space Telescope

PROFESSIONAL EXPERIENCE

Thomson Reuters/Practical Law

Labor and Employment Legal Assistant February 2018 – Present

- Developing a full-stack application to analyze and visualize three years' worth of customer's response data to weekly email using Python, D3.js and HTML templates
- In charge of creating weekly and monthly newsletters with HTML, sending legal research emails to the team, monitoring the social media page, and tracking newly published articles through Excel