SIMRANJOT SINGH

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SUMMARY

- Disciplined and dedicated Data Analyst ready to engage in creative endeavors in the data world with skills in data modules, web development, data pipelines and visualizations
- Experienced in refining and cleaning raw data to reach a clear synthesis from variety of sources with impactful visualizations using various Python/JavaScript libraries and utilizing Machine Learning models to present analysis and forecasting
- Ready to engage in independent projects as well as collaborative group work
- Designed a local web dashboard for displaying car accident statistics for California Counties with HTML, CSS, and JavaScript utilizing a US Accidents Database connected through PostgreSQL database with Python SQLAlchemy as well Machine Learning prediction of Car Accident Severity with Decision Tree Modeling

TECHNICAL SKILLS

Tools: Python, JavaScript, HTML, CSS, Pandas, NumPy, Matplotlib, Flask, jQuery, SQLAlchemy, Splinter, APIs, AJAX, Plotly, D3.js, RStudio, MRJob, PySpark, Mapbox, GIT, GitHub, Tableau, Seaborn, Pickle, Sklearn Metrics, and TensorFlow
Databases: PostgreSQL, MongoDB, NoSQL, S3 Buckets, Amazon RDS

PROJECTS

Accident Severity | www.github.com/SiMewL8/Car_Accident_Severity_FinalProject

- Displayed summary visualizations of car accidents in California Counties on a user-input interactive dashboard using Plotly.js, HTML, and CSS with AJAX jQuery and SQLAlchemy from a locally hosted PostgreSQL US Car Accidents Database
- Modeled Accident Severity prediction for a user-selected California County using Decision Tree Classifier with various features and Severity as the target

Big Data Reviews | **www.github.com/SiMewL8/big_data**

- Performed ETL process and uploaded Video Game Reviews Datasets to an AWS Relational Database Service (RDS) instance in the cloud through PostgreSQL
- Utilized PySpark functions to perform hypothesis testing of bias “Vine” video game reviews on Amazon

Belly Button Bacteria Plotting | **www.github.com/SiMewL8/Belly_Button_Plotly**

- Created a live dashboard to showcase user-selected bacteria samples and statistics with interactive visualizations from JavaScript with development and debugging
- Plotted bar charts and a gauge counter using Plotly.js with D3.js event handlers to fetch external bacteria sample data

EXPERIENCE

Community Service Officer (CSO) Oct 2015 – Sep 2019
University of California Police Department (UCPD) Goleta, CA
Liaison between students in UCSB and UC Police Department. Assisted UCPD with event security for concerts, sports, and traffic control during routine and emergency situations. Patrolled campus and surrounding areas to ensure safety and be a resource for students.

- Promoted to Shift Supervisor with increased duties in directing various shifts and events
- Established a Bike Mechanic Program within the department responsible for maintaining bikes and creating policies and discipline on biking etiquette, budgeting finances for equipment, as well as teaching/testing others in fixing bikes

- Commandeered various radio channels in Police Dispatch to gather and relay information with accuracy and brevity. Utilized Computer Aided Dispatch (CAD) entries to inform and communicate with Police Dispatchers in real-time

EDUCATION

Boot Camp Certificate: Data Analytics and Visualization May 2020 – Nov 2020
University of California Berkeley Extension (Online) Berkeley, CA
A 24-week intensive program focused on acquiring technical programming skills in and data refining using Excel, Python, R, JavaScript, SQL Databases, Tableau, Big Data, and Machine Learning.

Bachelor of Arts: Global Studies Sep 2015 – Sep 2019
University of California Santa Barbara Goleta, CA