

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

- Collected visual information and presented statistical analysis of California Car Accidents from Feb 2016 – Jun 2020 on an interactive dashboard
- Displayed summary visualizations of car accidents in California Counties on user-input dashboard and created accident severity prediction based on supervised machine learning models
- Utilized Plotly.js, D3.js, HTML, and CSS with AJAX jQuery and SQLAlchemy on Flask App for dashboard visualizations from a locally hosted US Car Accidents Database on PostgreSQL

Credit Risk Machine Learning | www.github.com/SiMewL8/credit_risk_ml

- Evaluated credit risk by comparing several machine learning models with class imbalance from aggregate lending data
- Resampled and scaled data by using regression classifiers and trained ensemble classifiers to assess candidate loan risk
- Applied Python scikit-learn modules with classification algorithms such as Decision Tree, Balanced Random Forest, SMOTE etc.

Mapping Earthquakes | www.github.com/SiMewL8/Mapping_Earthquakes_JJ

- Plotted earthquakes from last 7 days from US Geological Survey GeoJSON data on an interactive map API
- Retrieved GeoJSON data hosted on maps API and display earthquake properties with map layers and various labels
- Read GeoJSON data with D3.js to display earthquakes using Leaflet API and applied JavaScript to add features, layers, and interactivity

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