# SIMRANJOT SINGH

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in linkedin.com/in/simsingh-simewl8 **|** ⌨ SiMewL8 **|** 🗎 simewl8.github.io/portfolio_v2

*Disciplined and dedicated data analyst ready to engage in creative endeavors of the data world with skills in ETL, machine learning, data pipelines, dashboards, and visualizations.*

## PROJECTS

**Accident Severity |** github.com/SiMewL8/Car_Accident_Severity_FinalProject
*Tech Stack: Plotly.js, D3.js, HTML, PostgreSQL, CSS, AJAX, jQuery, SQLAlchemy, Flask App*
- Presented statistical analysis of California Car Accidents based on seasonal changes, weather patterns, and traffic causality to deliver accident severity.
- Displayed web dashboard visualizations of car accidents and accident severity prediction with an 73% accuracy from supervised machine learning models.

**Web Scraping to Mars |** github.com/SiMewL8/Mission-To-Mars
*Tech Stack: Python, Flask, MongoDB, Splinter, Selenium Web Driver, Beautiful Soup*
- Performed automated web scraping on scrape-friendly websites to display active information on a working web dashboard.
- Automated scraping with HTML elements and Beautiful Soup to collect Mars facts and recent developments through non-relational MongoDB and Python Flask App.

**Credit Risk Machine Learning |** github.com/SiMewL8/credit_risk_ml
*Tech Stack: Scikit-Learn Libraries, Decision Tree, Random Forest, SMOTE modeling*
- Evaluated credit risk for loan candidates with supervised machine learning class imbalance to generate a classification report.
- Resampled and scaled data with regression classifiers and trained ensemble classifiers to assess loan risk with confusion matrix, with highest model accuracy of 92%.

**MechaCar Prototypes |** github.com/SiMewL8/MechaCar_Prototypes
*Tech Stack: R, RStudio, ggplot2, t-Testing, ANOVA, Pearson's Correlation*
- Analyzed relationships between vehicle features and specifications for prototype vehicle datasets from different manufacturing lots.
- Designed multiple linear regression analysis and performed hypothesis testing to identify vehicle mpg variables and quantitative variables of suspension coil t-Tests results.

## EDUCATION

**University of California, Berkeley (Online)**                                      Berkeley, CA
**Certificate: Data Analytics and Visualization**                     May 2020 – Nov 2020
- 24-week rigorous bootcamp focused on acquiring technical programming skills in data analytics using Python, R, JavaScript, SQL, Big Data, Databases, Machine Learning and more.

**University of California, Santa Barbara**                                      Goleta, CA
**Bachelor of Arts: Global Studies**                                      Sep 2015 – Sep 2019
- Minor in Statistics and Japanese with 3.22 GPA.

## EXPERIENCE

**University of California Police Department (UCPD)**                     Goleta, CA
**Community Service Officer (CSO)**                                      Oct 2015 – Sep 2019
- Liaison between UCSB students and UC Police Department to promote safety and security.
- Assisted UCPD with campus and event security for concerts, dorms, sports, and traffic control during routine and emergency situations during day and grave shifts.
- Promoted to various roles such as Lead Supervisor with management duties, head of Bicycle Maintenance with training practicum, and Assistant in UCPD Dispatch.

## EXTRACURRICULAR

**SacPy**                                                                          Online
**Sacramento Python Group**                                      March 2021 – Present
- Python based group sharing ideas in Python related libraries, projects, and theories.

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### TECHNICAL SKILLS

**Languages:** Python, SQL, JavaScript

**Libraries:** Splinter Browser, Selenium Web Driver, Pandas, NumPy, D3.js, SQLAlchemy, jQuery, AJAX, Plotly.js, MRJob, Seaborn, Beautiful Soup, TensorFlow

**Databases:** PostgreSQL, AWS RDS, MongoDB

### VOLUNTEERING

Elk Grove Food Bank Services

### LANGUAGES

English, Hindi, Punjabi, Japanese (conversational)

### INTERESTS

Media Streaming Platforms, PC Building, FPS Games, Badminton, Japanese Media Translations