Project Title

Analyzing the Covid Vaccination Progress in California

Team Information (Team 8)

Bruce Jiang, 015559024

Hanyu Hu, 015954341

Wai Yin Suen, 007970625

Prasaanth Radhakrishnan, 015279524

Data Set

1. COVID-19 Post-Vaccination Infection Data https://data.ca.gov/dataset/covid-19-post-vaccination-infection-data/resource/22066d16-3465-4339-94d6-a4f1b3a91101
2. COVID-19 Vaccine Progress Dashboard Data: https://data.ca.gov/dataset/covid-19-vaccine-progress-dashboard-data/resource/c020ef6b-2116-4775-b11d-9df2875096ab

Project Idea

Vaccination of COVID in the United States is hard to keep track of. By analyzing the vaccination process, our group can see different progress of vaccination taken in different areas and peoples' willingness to take the vaccine.

Brief Description

1. We will identify the desired data sets
2. And then use the data preprocessing technique we just learned to clean them
3. We will then apply classification or machine learning technologies upon those data (either random forest or SVM)
4. Draw conclusions and have prediction matrices apply to the current data to make the prediction.

References

1. https://data.ca.gov/dataset/covid-19-vaccine-progress-dashboard-data
2. https://www.tutorialspoint.com/data_mining/dm_applications_trends.htm
3. https://builtin.com/data-science/tour-top-10-algorithms-machine-learning-newbies
4. https://greenwichhr-covidjobimpacts.s3.us-east-2.amazonaws.com/ghr_data_specs_covid_public.pdf

Roles

- Role 1 (Wai Yin Suen): Analyzer on data cleaning
- Role 2 (Bruce Jiang): Organizer and presenter
- Role 3 (Hanyu Hu): Developer of the model
- Role 4 (Prasaanth Radhakrishnan): Researcher on data cleaning and model development