Self-Assessment of Final Project

# Self-Assessment

During this project I helped research data sources and identified the data source used for the states table. I set up the SQL Database in PgAdmin/Postgres. I wrote the majority of queries while creating and cleaning up the SQL tables. I researched SQL information using google and often had to try multiple solutions before one worked. I created the Tableau Dashboard based on the csv files downloaded from the Postgres database and a dashboard that includes screenshots of images from our machine learning Jupyter notebook document. As a team we took turns updating the READ.me and making changes to the Google Slides document that Sarah created. During our meetings when I wasn’t sharing my screen I would look up information for those that were, ie machine learning. I cleaned up the readme, Google Slides and GitHub so they appeared neater. I was responsible for taking screenshots the dashboard graphics for the readme and Google Slides. The biggest challenge I faced was trying to figure out how to get one of my action filters to apply to all the graphics on my Tableau dashboard.

# Team Assessment

Our team chose to not have each person take on a specific shape role. Each of us played a part in each role. Sarah created the Google Slide presentation, but each of us updated our notes and added screenshots and citations were appropriate. Sarah also helped make sure we were following the rubric and update the read me and took part in conversations regarding the rest of pieces during meetings. Drew set up the repository, was a driving force in set up the machine learning, helped update the readme, google slides and other documents. Ritesh like Drew, worked on the machine learning, updated Google Slides presentation and worked on the readme. Like Sarah, Drew and Ritesh took part in every piece of the assignment during the team meetings. Our biggest challenge as a team was figuring what data to look at. We initially started looking at one set of data to only realize it did not our need, so we did additional research and found another set of data that met our needs. Another challenge we faced was figuring out what piece of machine learning was going to work, to overcome this challenge we talked to Ted and the TAs.

# Summary of Project

Our team communicated over Slack and through Zoom meetings. At times, our schedules didn’t mesh the best, so we worked around that by meeting at 7am in the morning. If we were to do this again, I would recommend scheduling meetings at the beginning for the whole duration of the project. Our strengths as a team were being able to pivot if we found a problem and being creative with time management. I would advise a new cohort working on their final project to ask for help early and often so they don’t out they have issues at the end. The topic of our final project was analyzing the relationships between COVID-19 and Housing Data. We used the logistic regression with liblinear solver and random forest classifier modules. The SMOTE logistic regression with liblinear solver had a precision of 89% and a recall of 90%, the SMOTEEN logistic regression with liblinear had a precision of 94% and a recall of 93% and random forest classifier with a precision and recall of 97% recall.