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Final Self-Assessment

The Team project was a valuable experience because it allowed us to practice our skills, collaborate on a large-scale analysis, and help each other through challenges. My role in the project in the beginning was selecting/sorting through data, and then later performing the ETL process on the merged datasets. After the cleaning, I switched to helping create some Tableau Visualization and adding to the readme/presentation. Our team was extremely communicative through the slack and by creating meetings outside of class to check in and provide help on challenges encountered. The Mental Health Predictor ended with a higher accuracy than I expected with 80% in their mental health risk prediction.

My role in the beginning was to clean the three datasets of income, city health data, and population density. After that I built Tableau graphs to add to the dashboard. In the next step I played more of a support role by helping others and by preparing for the presentation and dashboard completion. The final week was dedicated to making sure the team was all on the same page.

The Team did a good job of communicating the issues and the best solutions for the problems. Looking back, I think if we found a couple more features for the model and if we established the roles a little more to increase the workflow. I wish I participated more in building of the machine learning model.

Our analysis focused on identifying the factors associated with the prevalence of poor mental health in the US. Multiple machine learning models were used and most of them provided about 80% accuracy in their mental health risk prediction. The strongest feature in predicting poor mental health was the Standard Deviation of Income according to Random Forest model. Features I wish we were able to add would be the effects of Covid, Climate and Healthcare access.