COVID-19 Prediction

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Abstract:
For our research project, we would like to try to predict the amount of COVID-19 cases in the near future in San Diego County.

COVID-19 is worth researching as this mysterious disease is not only one of the few diseases where a person can be asymptomatic but also can cause severe side effects such as loss in taste due to the virus affecting the brain. By researching the potential amount of COVID-19 cases in the near future, this can help people prepare to fight the virus by wearing masks, avoiding large social gatherings, and receiving an additional booster shot when available. In addition, knowing when there may be a possible spike in COVID-19 positive cases can help hospitals, pharmaceuticals, and manufacturers of essential tech and items to be well-prepared.

We plan to investigate the amount of COVID-19 cases in the near future from the usage of a Machine Learning model called Linear Regression that could take in multiple features from the dataset to create a line graph. We will be using data about the current and past cases to predict the future cases.

Datasets: COVID-19 Statistics San Diego County

Number of records: 554
Number of columns: 25
Column data types: Digits

References:

These articles talk about predicting new active COVID-19 cases by using data from the World Health Organization in the form of a Machine Learning Model called Linear Regression.
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7395225/
https://www.jmir.org/2020/10/e21439/

The below article from *Johnson & Johnson* discusses how data science can be used for the fight, preparation, and prevention of COVID-19 by real-world teams.
https://www.jnj.com/innovation/how-johnson-johnson-uses-data-science-to-fight-covid-19-pandemic