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Presidential Election Results (Political leanings) –

Description:

This enrichment data set provides information regarding the presidential elections 2020. The dataset has 11 files based on Governors, Senate, President, House representatives. The president county candidate data set provides information on the candidate who received the most votes in the county. This data set mentioned Only a few states. President county election candidate data set have the following variables, and their description is mentioned below.

Datatype Variable Dictionary:

Name	Datatype	Description
state	String	Name of the State
county	String	Name of county
candidate	String	Name of the Person who is standing in the election from that County
party	String	Name of the Political party which they are representing
total_votes	Integer	Number of the votes for the candidate
won	Boolean	Describes whether the candidate win or lost

How to Merge:

The state and county names are common variables in both the election results enrichment data and the Covid-19 dataset. Since the County names are not unique, as they are some repetitive names across different states, we would have to use a combination of state and county columns as the key to performing the merge.

Importance of Presidential Election Results dataset in the analysis of Covid19:
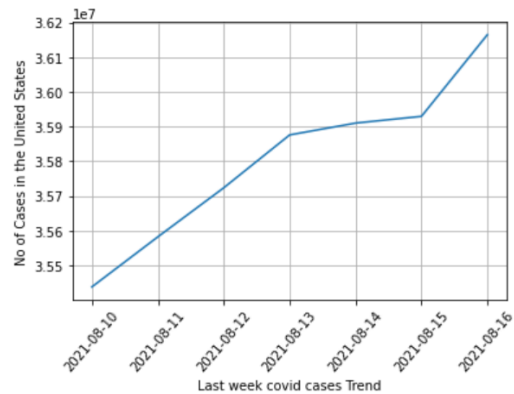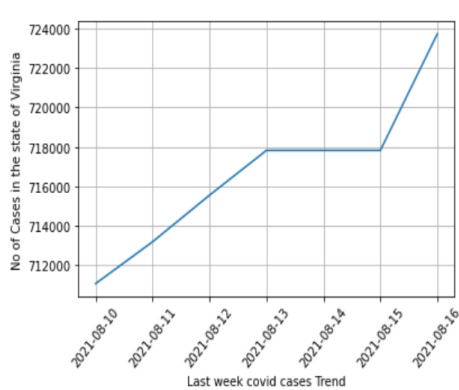
Presidential election results dataset can be useful to analyze how political equations resulted in COVID-19 spread. We can look for a few correlations between a merged dataset of the Covid data and the election results data. We can hypothesize that the spread of covid-19 cases per capita is more remarkable in counties where the percentage of a particular party's voters is more significant. May this could be chosen based on the party's policies and propaganda. We could also Hypothesize that the covid cases are greater in counties with more significant voting percentages as there are greater numbers of people gathering at the polling booths.

Hypothesis Questions:

- Whether Counties with high population has more covid spread?
- Is COVID-19 cases decreased electoral support for Donald Trump?
- Are the voting percentages decreased due to the rise in Covid cases?
- Is gatherings at the polling booths was the main reason for increasing Covid cases ?
- Covid cases are less in some counties with more significant voting percentages. Can this be based on a general thought that people responsible for voting would also be accountable for practicing social distancing?

Analysing COVID-19 data trends:

For calculating data trends of COVID-19, I observed the number of confirmed cases belonging to the state of Virginia during seven days between August 10th and August 16th. I chose to compare this with the last week's Covid cases data in the whole United States for a more robust analysis of the trends. By measuring these two against each other, I could determine the growth of Covid cases in Virginia state while comparing with all other states. Below are the line graphs depicting the trend for the number of cases over the last week throughout Virginia and the whole United States.

By Observing the above two graphs, I was able to determine that the number of cases saw an exponential increase from August 10th to August 13th. For the next two days, the growth was almost stable, and on the last day of the week, the number of covid19 cases increased drastically.