

Total employment rates before and after the pandemic and their effect on real GDP average rate over the U.S.

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My research question

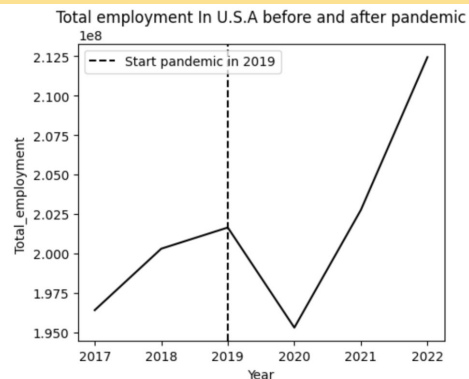
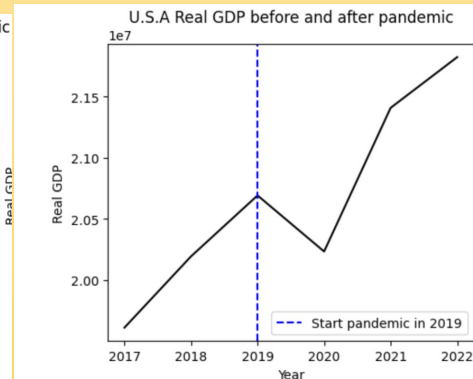
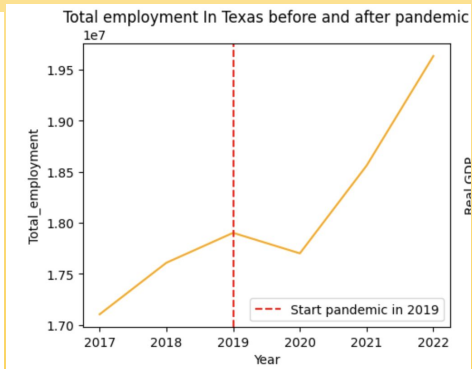
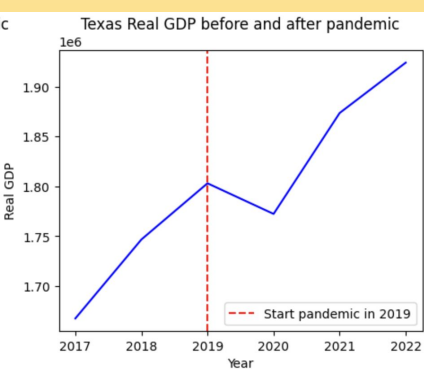
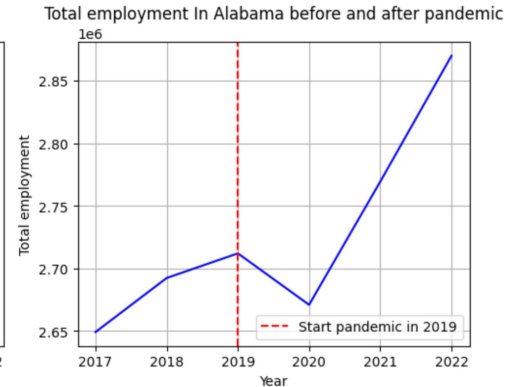
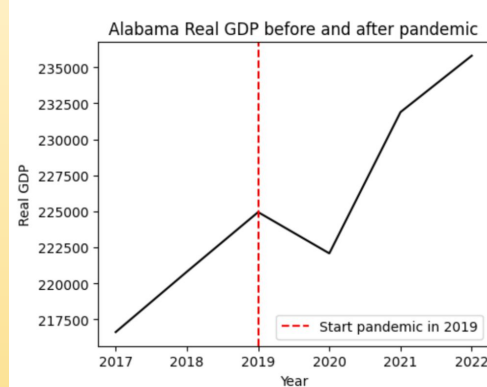
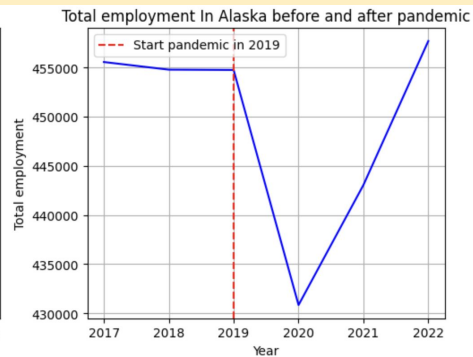
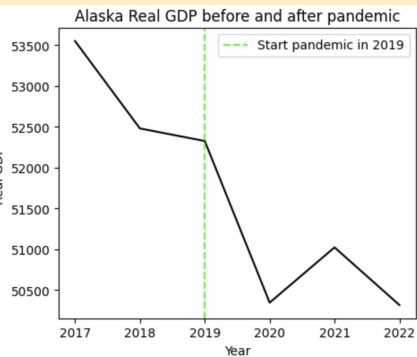
What are the total employment rates over the United states before and after the pandemic and how does it affect average of real GDP?

Results

- There is a correlation between Total employment and Real GDP rates.
- The total employment rates can affect the real GDP over state and country.

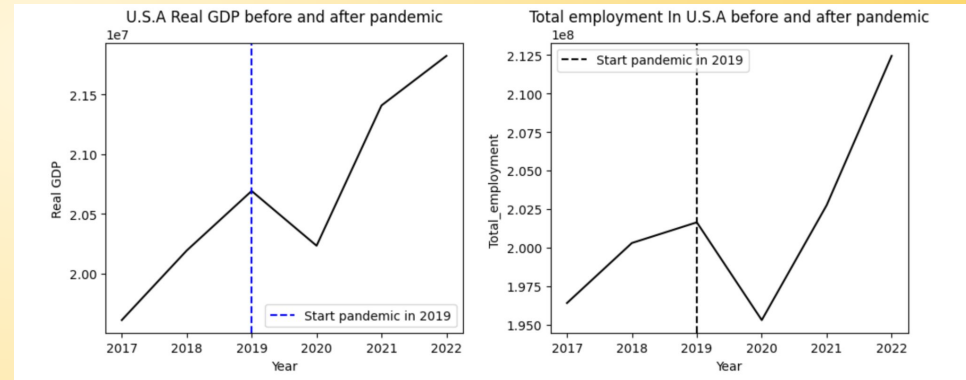
	Real GDP #average rates between 2018 and 2022.	Total Employment #The average between 2018 and 2022.
Texas	1797739.21	18084405.67
U.S.A	20660314.666	201467033.33
Alabama	225358.3666	2727355.33
Alaska	51672.8833	449440.5

Plots



Results U.S.A Trend

- The United States in general before the pandemic was increasing in Total employment rates and real GDP rates.
- At the start of the pandemic which started in 2019, total employment started to drop affecting our real GDP rates due to the lockdown.
- United States went from approximately 2.06 Real GDP rates to 2.00 and total employment rates from approximately 2.010 to 1.950 between the years 2019 to 2020.
- Everything started to get better at the end of 2020 the lockdown ended in the US and because of that people started to work again and get out of their homes increasing the total employment and real GDP rates.



In conclusion

- The Lockdown that happened during the pandemic had a huge effect on real GDP and Total employment due to people working less and staying at home.
- After 2020 everyone started working again so the real GDP and Total employment started increasing again.

Challenge that I have faced

- I originally wanted to model the oil price changes and their relation to real GDP before and after the pandemic. However, it was difficult to look at 2 different datasets with different months and years.
- Another Obstacle I have run into was having huge data which had many columns and rows that I didn't need making it harder to get the columns for the states I wanted.

In future what I would do differently.

- Next time I would try to look at smaller data sets that correspond to similar times.