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Is Daylight Saving Time a Killer?

For our project we want to focus on traffic accidents in relation to daylight savings. Big Question we are looking for: Does daylight savings time in California have an affect compared to Arizona which does not have daylight saving time?

Some questions to brainstorm would be:

1. Does day light savings regress (November) have an impact on accidents on those living in California (looking at two weeks before and after the change?).
2. Will comparing California vs Arizona be sufficient in answering our question?
3. Overall, in the US are their cities that have more accidents (rural vs city)
4. What factor may have caused the accident?

Datasets we have found as of now include, https://www.kaggle.com/datasets/sobhanmoosavi/us-accidents for car crash data and https://sunrise-sunset.org/api for sunset data.

Our project will include merging 2 datasets together. Importing, describing (find what to keep and what to hide), and cleaning up the data to a more easy-to-understand format. We will be displaying data statistically and add graphs to visually interpret the story we are showing to our audience. Lastly, interpret the data. We will be using Jupyter notebook to carry out this project. With that, we will be using Pandas and matplotlib dataframe.

Assigned Tasks:

Tim is going to take on the responsibility of retrieving data for sunrise and sunset.

Jerry is going to filter through the traffic accident data set and limit it down to what we need for this project.

Yuntian will be comparing the two weeks before and after daylight saving time and looking at if there are statistical differences before and after the change.

Nikki is responsible for performing statistical analysis on the data, including creating data frames. She will also be able to put together the presentation.

Rebecca’s main priorities will be creating visual graphs using matplotlib, and putting together a presentation for class. She will also be taking care of maintain the team’s GitHub.