Team members have drafted their project, including the following:

✓ Selected topic

✓ Reason why they selected their topic

✓ Description of their source of data

✓ Questions they hope to answer with the data

Team members present a provisional machine learning model that stands in for the final machine learning model and accomplishes the following:

✓ Takes in data in from the provisional database

✓ Outputs label(s) for input data

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The Rise of Traffic Fatalities During the Pandemic and its Relation to the Price of Gas

According to multiple reports from U.S. Department of Transportation’s National Highway Traffic Safety Administration, there was a rise in traffic fatalities during the pandemic. While the NHTSA attributes this rise as positively correlated to the rise of DUI/DWI’s, lack of seatbelt usage, and speeding, our team is curious to find out how the price of gasoline, which notably fell to $1.841 a gallon during May 2020 of the pandemic, may also be correlated. We also hope to see if the subsequent historic rise of gasoline prices shows a negative relationship with traffic fatalities.

We are sourcing our data related to the traffic fatalities directly National Highway Traffic Safety Administration. We are sourcing our data related to the average U.S. price of gasoline from the U.S. Energy Information Administration.

Dependent Variable:

Whether a traffic incident resulted in a fatality.

Independent Variables:

* U.S. Average price of gasoline (dollars per gallon)
* Failure to require restraint use by self or passengers (0 or 1)
* Whether or not there was impaired driving due to the use of alcohol, drugs, or prescription medication (0 or 1)
* Whether or not there was involvement of a vehicle travelling at an illegal high speed (0 or 1)
* Weather
* Day of the Week
* Light level

<https://www.nhtsa.gov/press-releases/2020-fatality-data-show-increased-traffic-fatalities-during-pandemic>

<https://www.nhtsa.gov/press-releases/early-estimate-2021-traffic-fatalities>