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DSC640-T302

Week3&4: Milestone1

Supporting Documentation:

We have been hit by negative buzz that airplanes are no longer a safe form of transportation but what do the facts tell us? Yes, we have had fatal airline accidents, but we can clearly see that these accidents occurred before the year '99. We see the highest mortality rates come from Aeroflot, a Russian company, so we must ask ourselves what might have led to these accidents.

First, we want to dive deeper into Russia's economy during the years of these accidents we can see using data from MacroTrends that Russia's economy was plummeting during these years. We can correlate a crash in their economy to people not having proper education/resources to advocate for airplane safety. As Russia's economy raised, we see a correlation in decreased airline accidents. From this correlation we can predict that the more willing people are to give in to the economy the safer airplanes become as technology is able to flourish. If we follow these trends, and ignoring the economic downfall COVID has caused, we can see that the US's economy is also growing and thus can predict people are willing to spend on airline tickets. This can be backed by the number of seats airlines have available. We see a majority of airlines have less than the average number of seats available which is positive; the fewer seats available mean the more people are consuming and debunking this myth that air is less safe.

If we compare airplane deaths to deaths by car the results are astonishing. In the year 2014 there have been more drunk drivers than airline accidents. The potential threat of a drunk driver killing innocent is higher than those of dying by an airplane accident. Of course, we cannot assume all accidents will result in a casualty, but on average there is a higher fatality rate per drunk driver and people hurt in car accidents than those in airplane accidents.

The graphs were chosen to make it easier for the audience to follow the trends and rates at which people were dying. It is clear to see there are accidents in airlines through line chart provided. The included bar charts allow for a clear understanding in the difference between accidents and fatalities in car accidents in a single year. Rather than having all years in a line graph the single year bar chart allows for a greater impact on the numbers.

Supplemental datasets:

- [Real Retail Sales Historical Chart | MacroTrends](#)
- [Russia Economic Growth 1988-2021 | MacroTrends](#)