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DSC640 - Week 2.3

Professor Schneider

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Airline Safety Supporting Documentation

Commercial air travel is safer than ever. That is a strong statement in our political climate. Do you know what a stronger statement is? , being able to prove it. Not only can it be proven with facts but also through a visualized and interactive dashboard. A study performed by MIT that was shared by Science Daily found that between 2008 and 2017 airline passenger fatalities fell significantly compared to the previous decade. The global rate for airline fatalities is not one death per 7.9 million passengers boarding's compared to per 1.3 million from 1988-1997. This alone demonstrates the increasing and not decreasing safety of the airline industry.

When looking at the Dashboard for Airline Safety Evidence, we can see first the overall incidents over time from 1985 to 2014. The data is split and color coded at the year 2000 which approximately aligns with the MIT study outlined about. The colors are all cool in the spectrum and non-threatening which aligns with the minimal amount of incidents found. Across all airlines, with exceptions of rare incidents the fatalities rate is less than 25 of the time periods and even less as you get closer to current times.

The part of the dashboard compares the airline fatality data from the same time period to the automotive fatality data. It can be seen that there is often 500 times that amount of fatalities averaged in a year than what is seen in the average time span from the first or second half of the airline data. The automotive data is the only data using a red trend line in the dashboard to highlight the danger and risk in automobile accidents compared to airline. Two of the charts are using line graphs due to the trending data, and the final one is using a stacked bar chart due to its collective non-trending representation.

In conclusion, it can be seen that commercial air travel is safer than ever which is demonstrated both by studies and the visualized dashboard. This level of safety and growing safety takes into account the increased air traffic, and decreased revenue. Despite both of those items, airlines maintain being one of the safest forms of travel.

Github Link: alarosa569/DSC · GitHub

Citation

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