

Term Project

Milestone 1

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Dashboard Summary

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The goal of my dashboard was to show the decline in accidents in the airline industry. I highlighted airline data in three different visualizations. The largest chart shows the total air travel accidents by year from 2000 to 2020. I then calculated a trend line showing a decrease in those accidents. I decided to stay away from focusing on fatalities, as that adds an element of anxiety to the conversation. I would be compelled to have a conversation with my peers and get their thoughts on that subject.

Two other charts focus on the airlines. The first looks at airline accidents with a running 5-year average plotted line. This combines the use of a bar and line chart together. The 5-year average gives a different evaluation of data trends and shows that some years the accidents were far below that average. The second is a graded color stacked bar chart to show the plane crash causes. I decided to make the darkest color the most notable factor which is pilot error. It appears that over the decades the airline industry has focused on reducing pilot error along with the other factors involving plane crashes.

I did include a chart that plots a line of the car accidents per 100K drivers by year. This calculation is a ratio number so for every 100K drivers the value represents that number of accidents. I only looked at the last 10 years of values to ultimately create a trend line that shows an increase in accidents. If I looked at 20 years, which was like my airlines evaluation, it shows a decrease. I would like to discuss with my peers the difference in this time frame and determine its significance.

The last two visualizations I created were intended to be more of an attention grabber and not an actual plotted chart. The 71.2 million statement is there to help identify the magnitude of people who participate in air travel and then in comparison the number of accidents, we can easily determine the number of accidents is so minimal for air travel. The final statement is one I found on a psychology website where 1,000 people who chose to drive instead of fly after the 9/11 attacks were involved in an accident causing a fatality in comparison to years prior. These types of views are intended to create attention and thought to the subject matter. I would like for my peers to weigh in on if it adds value to the dashboard.