

Project Task 1: Dashboard

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I chose to include visualizations in this dashboard that show us that airline travel is safe. Starting from the top left visualization and going left to right, I included this first clustered bar chart comparing motor vehicle fatalities to aircraft fatalities. This shows us just how many more people die every day in the U.S. from car crashes compared to plane crashes. One ethical consideration to make is that these values have not been normalized to the amount of time spent in a car versus a plane, and we know that people generally spend more time driving than flying.

Next, we have a donut chart showing the ratios of fatalities by flight phase. We can use this to determine which parts of the flight are the most dangerous, and therefore what safety we should be focusing on improving. Note that some of the crashes did not contain data about what phase of the flight the crash occurred during. With the following visualization we see fatalities split by type, where we consider passenger flights compared to cargo flights. We need a better understanding of the number of cargo and passenger flights taken each year to put these in context.

On the second row we start with a line chart that tracks the total aircraft fatalities by year. This is meant to show that the number of fatalities has decreased over time, and thus airlines are the safest they have ever been. Next, we can see that there are certain months with much fewer crashes and some months with many more. It appears that winter weather has an impact on the safety of the passengers on board. Finally, I chose to include a chart of the airlines that had the most fatalities, so that we know which airlines are to blame for these fatalities, and which airlines we can expect to operate the least safely.

References

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