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DSC640 – Data Presentation & Visualization

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There has been an increase in the attention of media (including social media) on the worldwide airline passenger accidents recently. Even though, there are some notable crashes in the past few years, some due to the geo-political tensions between the countries, the overall trend seems to be in a decline, which is a great news for passengers who prefer it. Also, one thing to note is that the no. of flights increased as well.

Using this dashboard, we show six different metrics to show that airlines are still one of the safest ways to travel. To create this dashboard, we used Tableau software, and we used data from multiple sources that are included in the reference section. I have used the default color palette from Tableau, but I made sure to check the visualization colors are color blind friendly as well in case any of the audience are color blind. Also, one of my friends is color blind which made me aware of their problems in differentiating some colors and this prompted me to make sure that I check it.

Bar charts are included to depict the fatalities by geographical region and top 10 airlines by fatalities respectively. USA and Russia seem to have a greater number of fatalities probably since the air traffic is high in these areas because of geographical reasons. Scatter plots are included to show the fatal accidents and fatalities comparison between years 1985-99 and 2000-2014. It shows that count of fatal accidents and fatalities have reduced in the latter years. The line charts that compare car and airlines fatalities between 1994 till 2018 are also included to give a high-level overview. This corroborates that in fact airline fatalities are far less when compared to car fatalities. Another important point to notice is that the airline fatalities graph is trending downwards which means airlines are becoming much safer.

References:

<https://github.com/fivethirtyeight/data/tree/master/airline-safety>

https://aviation-safety.net/statistics/geographical/worst_geo_loc.php

<https://www.fars.nhtsa.dot.gov/Trends/TrendsGeneral.aspx>

<https://www.color-blindness.com/coblis-color-blindness-simulator/>