

## **Executive Summary**

The media reports about airline safety do not truly reflect to the facts and data. The statistics promoted by media could be misleading and it can be justified using six data visualization trends.

The first visualization shows the total number aircraft crashes from 1919 to 2020. The number of accidents has reduced over the years. From 2009 to 2019, the crashed have reduced by 50%.

The second visualization is the comparison of Total airline incidents, Fatal incidents, Fatalities in 1985-1999 and 2000-2014. For instance, the number of Fatal accidents in 2000-2014 is significantly low when compared to Fatalities which implies that there are not many Fatal accidents that contribute to Fatalities. Also, the fatalities in 2000-2014 is reduced by 50% when compared to 1985-1999.

The third visualization is the International Airline fatalities by Airlines. US airlines have less fatalities when compared to the world. This could be one of the reasons for inaccurate media reports on Air safety as they might have considered the international data on Airline safety.

The fourth visualization is the US Airlines traffic and capacity. The number of passengers boarded has increased over the years. There is a slight dip in 2009 which could be due to recession. The passengers boarded in 2015 is more even though the number of Aircraft departures reduced slightly when compared to 2014.

The fifth visualization is the US Air trips by purpose. The percentage of passengers using Air travel for Personal is about 70% in 2019 when compared to 30% for Business purpose. Air travel is affordable and preferred by people.

The sixth and final visualization is US Air travel and other price increase comparison between 2009 and 2019. When compared to other price increase over the decade, the percentage of Air travel price has just increased by 9% which is second only to public transit in this case.

To conclude, there are some key takeaways from these visualizations. The number of Airline accidents has reduced over the years with more people traveling by Air than ever and this comes at very minimal price increase. Airline travel has become safe, fast and cheap.