

How Safe is Airlines?

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A general assumption when we think about the safety during transportation is that Road travel is better than Air travel. Most of the time people think Air travel is riskier. After all, an air crash is catastrophic, with more loss of life, injury and property damage than a car accident. But is it true?

Airline accidents are highly publicized when they occur however airline accidents are extremely rare. These accidents are so rare that airline travel is statistically the safest mode of transportation overall. Based on actual data, we clearly show that Airline travel is the safest mode of transportation and is much safest when compared to automobiles which usually is the preferred mode.

- Fatalities/Accidents have reduced considerably over time. Numbers from 1985-2014 show that there is more than 50% reduction in Fatalities/Accident when we compare data from 1985-99 and 2000-14.
- When compared accidents to the total miles flown, in the year 2014 we can see 0.0036 accidents for every one million miles flown.
- In 2018, we saw a total of 33,654 accidents in Automobiles whereas Airlines had 115 accidents which is 0.34% of the Automobiles accidents.
- In 2019, we had over 1 billion passengers who have travelled in Airlines.
- From a business perspective, our revenue has been constantly increasing when the crash numbers are decreasing. It is a good trend for the Airline Industry.
- By presenting the above facts and the visualizations in the PowerPoint, we can certainly have the right impact on the public opinion.

Reference:

<https://www.kaggle.com/fivethirtyeight/fivethirtyeight-airline-safety-dataset>

<https://catalog.data.gov/dataset/accidents-fatalities-and-rates-1995-through-2014-for-u-s-air-carriers-operating-under-14-c>

<https://www.kaggle.com/crowdfunder/twitter-airline-sentiment>

<https://www.bts.gov/topics/airlines-and-airports-0>

GitHub Link:

<https://github.com/vinaynagaraj88/DSC640---Data-Presentation-Visualization>