

Supporting Documents

Introduction

Due to recent unfortunate incidents involving the aviation industry where more airline has crashed, the media has been promoting statistics stating that air travels is no longer safe. What was previous thought as the safest way to travel is now being called into doubt especially when compared to automobiles. We would try to separate the facts from the myth using data collected from the aviation Safety Network.

Methodology

Data was gotten from the aviation safety network and supplementary data was gotten from the "Economic Impact of Commercial Aviation By State, Airlines for America" to check the economic impact of this media blow out on the aviation industry. The data was loaded into a Microsoft Power BI and visualized to get the trends and insight into what is going on in the aviation industry.

Results

Stats

The First chart on page 1 shows the trend for fatal accidents within two-time gap, these time gaps are

- Fatal accidents between 1985-1999
- Fatal accidents between 2000-2014

The chart shows that a total of 122 fatal accidents occurred between 1985 and 1999, while a total of 37 accidents occurred between 2000 to 2014. This shows a 69% reduction in the total number of fatal accidents involving all the airlines world-wide. This reduction signifies a 69% improvement in the safety of airline travels between the two-time period (the time period between was 14 years for each time period).

The third chart on page 1 shows the number of incidents that occurred between the time periods stated below

- 1985 to 1999 (14 years' time period)
- 2000 to 2014 (14 years' time period)

402 incidents involving airlines occurred in the first time period, while 231 incidents occurred in the second time period. This shows a reduction of 45.5% in the number of incidents that occurred between those 2 time periods. This reduction of 45% signifies that air travels is got safer in the later time period than in the earlier time period.

The third chart shows the number of fatalities between the two time periods. 6295 fatalities occurred between in the earlier time period while 3109 fatalities occurred in the later time period. This shows a 50.6 % reduction in the number of fatalities between the

time periods. This reduction signifies that air travel has gotten safer as there are now fewer fatalities associated with it when compared with earlier times.

Financial

From the supplementary data gotten from the economic impact of Commercial aviation by state, Airlines for America data, the net profit made by airlines recently started increasing after they had a downward spiral during the financial crisis of 2008 and 2009. Another crisis or loss of confidence in the aviation industry might lead to a downward spiral that was seen during the financial crisis of 2008 – 2009.

Conclusion

Evidence from the data used showed that air travels has gotten safer in the later time period than in the earlier time periods. This is evident by the significant reduction in the number of incidents, fatal accidents, and fatality between the time periods.

References

https://cyberactive.bellevue.edu/webapps/blackboard/content/listContent.jsp?course_id=498072_1&content_id=12038365_1&mode=reset

<https://www.airlines.org/dataset/annual-results-world-airlines/#>

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