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DSC 640

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Airline Safety Analysis

Project Task 3: Blog Post

Initial Dataset:

[Airline Safety](https://github.com/fivethirtyeight/data/tree/master/airline-safety)

Supplemental Dataset:

<https://www.airlines.org/dataset/safety-record-of-u-s-air-carriers/>

Tool Used:

To create a blog, I used blogger which was easy and user friendly and the link to blog is <https://dscairtravel.blogspot.com/2023/02/air-travel-and-its-safety.html>

Summary:

For this task I got some ideas from Chapter 7 of our textbook and also researched some on the internet. The blog consists of some visual along with some background of air travel. The first paragraph focuses on statistics of flights that happens in US along with the general reason of why people fear for air travel.

We see media speculating about the negativity of air travel and how it not safe. I have used the data analysis with some visuals to display the stat that will make people feel comfortable flying with airplane. I have used bar diagram to see the decrease in number of incident and fatalities for air travel for two different time period. The fatal accidents are reduced by almost 70%, which is huge and is getting safer with new technologies.

I looked into the metrics which shows how many fatalities occur per km travelled by each airline. It was nice to see that none of the American airlines made it to top 25 in the list that means the airlines in US have a greater number of flights and they have very few fatalities. This could be because of the advancement in the technology and proper air travel inspection and maintenance rules. So, could be a metrics that helps other countries to look on how US airlines maintains and operate the airplanes. This helps people feel safe flying within US.

I have also looked into the fatalities caused by vehicles. According to driving-tests.org, an average of 100 deaths occurs per day in US caused by vehicle accidents. We can compare these to the fatalities that have occurred in air travel during two different timeframes. From 2000 to 2014 there were 264 fatalities which equals to 0.05 deaths per day which is 2000 times less than that for vehicle and for 2015 to 2021 there were only two fatalities caused by air travel. This shows people how safe the air travel is compared to driving.

Ethical Consideration:

When we are performing an analysis and we are concluding a result we need to make sure that the numbers and data are calculated and displayed correctly. If the number and result that I am representing and misleading and incorrect, then it will negatively affect the reputation and trust of my company. Therefore, I have checked the numbers multiple times before I send it out in public and have simplified the stats in words so that it will be easier for people to comprehend.

Reference:

1. Driving-Tests.org. (n.d.). *2022 driving statistics: The ultimate list of driving stats*. Driving Statistics: The Ultimate List of Car Accident Statistics [2022]. Retrieved February 5, 2023, from https://driving-tests.org/driving-statistics/
2. *Air traffic by the numbers*. Air Traffic By The Numbers | Federal Aviation Administration. (n.d.). Retrieved February 5, 2023, from https://www.faa.gov/air\_traffic/by\_the\_numbers