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DSC 640

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Airline Safety Analysis

Project Task 4: Infographic

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/>

<https://injuryfacts.nsc.org/home-and-community/safety-topics/deaths-by-transportation-mode/>

Tool Used:

To create a posture, I used Tableau and exported it in PowerPoint and pdf format.

Summary:

For this task I got some ideas from our textbook and also researched some on the internet.

The infographic that I have created is for the external people and I have tried to simplify the visuals so that it is easy to grasp the information at a glance.

I have started with the title of the infographic which tells audience what the content will be in the posture. I have made the infographic very colorful so that the audience will be attracted toward the infographic. I have added many visuals that displays the data related to the airline and the incidents that have happened for different time frame. I have given a quick glance of how many deaths happens per day with vehicle accident. This information will help audience make decision about travelling in air.

I have included 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 have included 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.

I have also used the supplemental data for other means of transportation and compared that to air travel. This visual for this comparison shows that passenger vehicle rate was 10 times higher than buses and 1623 times higher than air travel. This was important to include because people can compare these metrics and feel safe about travelling in airplanes.

Ethical Consideration:

When we are performing an analysis and we are concluding a result and 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. I have also included the reference for the data I used that way people cn go and verify my visuals if they ever need.

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

3. *Deaths by transportation mode*. Injury Facts. (2022, April 27). Retrieved February 19, 2023, from https://injuryfacts.nsc.org/home-and-community/safety-topics/deaths-by-transportation-mode/