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DSC640 T301 Data Presentation & Visualization

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Project Task 3 – Executive Summary

A. Introduction

I published the blog - Have a safe flight !!! to share the statistical findings and facts in simple words. Here is the [Link](#) for the blog.

The statistical approach is based on Aviation Safety Network database along with airplane crashes and Airline Revenue data from Kaggle. Due to recent unfortunate airline crashes and negative media buzz, the passenger is in state of panic. So, the focus of blog post is to share the insights with passengers to ensure them safe travel and can reduce their anxiety about Air travel.

The post will also let passengers know that Airlines are constantly working on improving Air services and for us they are our top priority.

In order to be precise, I selected 4 visualizations for the blog post. The first visualization is showing the total number of incidents by Airline. This visualization will help passenger to pick their own Airline which ensure safety and peace of mind.

The second visualization is showing the total number fatalities by Airline between period 1985 – 2014. The visualization also serves the same purpose as visualization 1. As looking at the facts passengers can see which Airline have less fatalities and incidents rates and can choose wisely their own airline. These visualizations are important as this will let them know that there are many Airlines available which focus on passengers as their top priority and make sure they travel safe.

As my third visualization I choose to show the number of fatalities happened in last 20 years. This visualization will show that the fatalities are decreasing year over year, and this proves that with new technology Airline industry is making progress in ensuring more safety to passengers and crew members. Airlines are regularly working on maintaining and improving their services to reduce the future risks to guarantee safer air travel to passengers.

As my last, I choose to show the revenue of Airline by years. As this visualization show that despite of all negative media buzz people is choosing air travel and the people who using air travel are increasing every year indicating that they trust Air services and with

all the negative news they still have some faith on Air travel industry.

I planned not to use some detailed visualization which meant for Airline industry like what they can focus on to improve the air travel services.

The visualization that was shared in blog post are more focused on sharing positive news and can ensure safe travel to passengers so that they can freely select their Airline services without any hesitation.

B. Ethical Implications

- As part of the project step 1, I noticed the discrepancy between Aviation Safety Network database and data coming from Kaggle like Kaggle data set is for period 1985-2009 and Aviation Safety network show the data for period 1985-2014 we are missing 5 years data for crashes and fatalities.
- The other risk I see is with ensuring data accuracy. Both data set is obtained from public website and none of them is government website, so it is difficult to say if data is accurate.
- All the data used for visualization is decade old and for better decision making it will be beneficial to visualize the recent data which can show the current state of Airlines.
- I also make sure all the ethical analysis guidelines will follow by me while performing data analysis steps.

C. References:

- Airline Safety dataset - <https://aviation-safety.net/>
- Airplane Crashes Since 1908: <https://www.kaggle.com/datasets/saurograndi/airplane-crashes-since-1908>

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