

Dipika Sharma

DSC640 T301 Data Presentation & Visualization

Bellevue University

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Project Task 4 – Infographic

A. Introduction

I used <https://www.canva.com/> for creating the infographic as part of the project task 4.

The purpose of the infographic is to show creative visuals to passengers to share the positive message on How safe is Airline and to ensure them safe travel and can reduce their anxiety about Air travel.

The visuals are based on Aviation Safety Network database along with airplane crashes and Airline Revenue data from Kaggle. I am also using deaths rate by transportation mode data from national safety council injury facts.

In the first section I share the fatalities rate, fatal accident rates and incident rates for period 1985-1999 and period 2000-2014. I showed them how much the rates went down in 2000-2014 from 1985-1999. This visual will show that airline is constantly making efforts to provide better and improve services to the passenger.

As part of my second visual I showed them the number of fatalities for last 10 years. This view is again to prove that there is an improvement in the services and fatalities rate went down to 40.6 % in last 10 year.

The top 2 visualization in infographic 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.

My third section of infographic 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.

The last section shows the death rates by transportation mode. These visuals are used to show that the personal light duty vehicles have highest risk of deaths compared to air, rail, and bus. The death rate is lowest when travelling with Airline.

The visualization that was shared in infographic 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.
- All the graphics used in the infographic are obtained from free source Canva and is not violating any copyright infringement.
- 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>
- Deaths by transportation mode - <https://injuryfacts.nsc.org/home-and-community/safety-topics/deaths-by-transportation-mode/>

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