DSC640 Data Presentation & Visualization -MileStone1 Writeup

Visualization in PPT & Reason Behind the Usage:

I have used few charts which are simple yet deliver the information to the executives as needed. Along with air travel, I have also considered one of the supplemental data set at motor vehicle fatalities which helps to compare the trends.

What is your plan to present to the executive committee?

My presentation for executive committee can show some important aspects as shown below:

- Airline Incidents and fatalities comparison
- Motor vehicle safety Incidents
- Comparison between different airlines and incidents
- Technology Advancement

What were your overall findings?

- Overall flight incidents or fatalities are at a declining rate with the advancement of time and technology
- When it comes to the question of 'Whether airlines is a safe mode of travel or not', we compared the worldwide air travel incidents data with the road safety incident data of only USA and still found airlines to be extremely safe.
- Chart (No of crashes by year): Incidents in 2020 has small number as compared to 1940 which tells as the technology has progressed air travel is becoming safer also as more flights fly more data is available to make things better.
- Chart (No of fatalities by airline): This combines airline fatalities data to show case how tech advancements in countries has reduced the air accidents as compared to the earlier years.
- Chart (Motor Vehicle Fatalities data) : I also brought in some data for Motor vehicle safety to prove the point that incidents there are huge number of incidents happen in road travel as well.

What ethical considerations came up when presenting to this audience or while you were doing your research?

- No PII data is extracted or used in any means. Another ethical responsibility that comes with handling data is ensuring data subjects' privacy.
- Data Sets are only used from websites which are available for public use and has no restriction for research purposes.

Reference:

Motor vehicle safety data : https://www.nhtsa.gov/data

Airline Datasets provided by in the course