Assignment 4.3

Project Task – 3

Blog Post

Sucharitha Puppala

Data Science, Bellevue University.

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Professor Catherine Williams.

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SUMMARY

Introduction

In the Blog Post I have discussed about the airline fatalities from the past decades and the recent ten years. The blog mainly concentrates on the fatalities of the different Passenger Flights, the aircrafts involved in the accidents and the phase of the flight where fatalities are recorded.

Visualizations

For the visualizations I have used annotated line plot for the number of fatalities from 1912 to 2021, indicating the highest number of fatalities recorded. I have used an annotated line plot with a trend line for showing the trend in the fatalities count between 2000 and 2021. For these plots I have selected red color indicating the fatalities. I have used an annotated Bar Plot in blue color for showing the fatalities count in different Passenger Flights. For showing the number of fatalities by the type of aircraft I have used an annotated Bar plot, the colors are based on the different types of Passenger flights for easy understanding. For showing the fatalities by phase of Flight, I have used annotated Bar Plot, the colors are based on the different type of passenger flight types for better understanding.

Blog Post Summary:

Transportation role is to provide or improve access to different places around world for personal or businesses. We have different transportation means like road, rail, marine and aviation. Accidents (or incidents) can occur in any type of transportation and can result in fatalities. Any transportation management has to take precautions to predict accidents and take necessary steps to prevent accidents in future. The data sources contain the airline fatalities from 1912 to 2021, the different flight types, and phase of the flight with fatalities. In the analysis of the airline fatalities data Military flights have recorded more number of fatalities, followed by Domestic Passenger flights. The blog mainly concentrates in identifying the highest number of fatalities in different passenger flights. The type of

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aircrafts having more number of fatalities in Passenger flights is identified, necessary steps are to be taken by the aircraft manufacturers for continuing in manufacturing or decommissioning the flight to avoid future accidents. The Phase of the flight where more fatalities are recorded is identified. En route is the phase where care is to be taken to avoid future accidents in airlines.

Conclusion:

Any travel is not safe if the safety rules and preventive measures to avoid accidents/ incidents are not followed. The airline fatalities have decreased from the recent ten years. The advancements made by the latest technology makes the Airline travel a safest travel. From the above study of the fatalities recorded in the Airline industry the type of aircrafts and the phase that are involved in the accidents/incidents resulting in the fatalities, are identified. By taking the necessary actions and updating the technologies where ever necessary, helps in avoiding accidents in the future.

Ethical concerns:

The ethical concerns that are to be considered in handling the data are privacy, confidentiality, honesty and fairness. While handling the data I have taken care that the data is not biased towards the airline/ airline industry. All the data is validated to ensure that the facts are not misrepresented in the visualizations.

References

Accidents and Fatalities per year, *https://docs.google.com/spreadsheets/d/1SDp7p1y6m7N5xD5_fpOkYOrJvd68V7iy6etXy2cetb8/edit#gid=1448957446*

Data World, Air Plane crashes 1908 – 2009, *https://data.world/hhaveliw/airplane-crashes-1908-2009*

Chapter 2 : En route Operations *https://www.faa.gov/regulations_policies/handbooks_manuals/aviation/instrument_procedures_handbook/media/FAA-H-8083-16B_Chapter_2.pdf*