

PROJECT REPORT

1. INTRODUCTION

1.1 OVERVIEW

The project “*The Tragedy of Flight: A Comprehensive crash analysis*” is a detailed investigation into the causes of an aviation accident. The goal of an airplane crash analysis is to identify any factors that contributed to the accident, with the ultimate goal of improving safety and preventing future accidents. The process of conducting an airplane crash analysis typically involves the collection and analysis of a wide range of data, including information about the aircraft and its systems, the operators, and any other relevant factors.

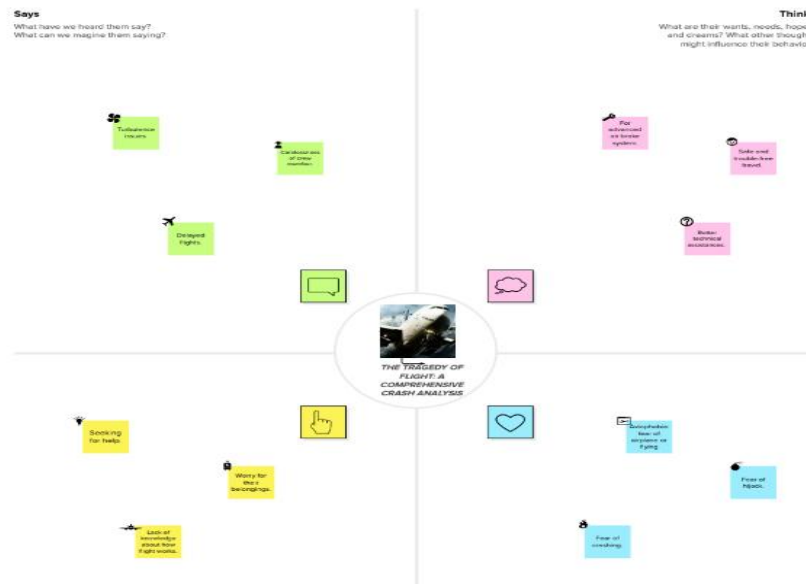
1.2 PURPOSE

The purpose of the project is to identify any potential causes of the accident and include recommendations for improving safety and preventing similar accidents in the future. These recommendations may be implemented by the relevant authorities or industry organizations.

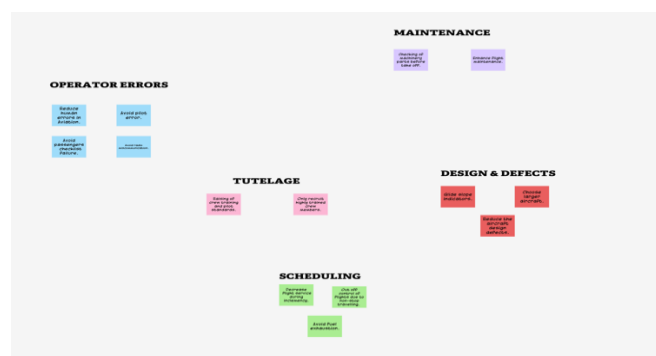
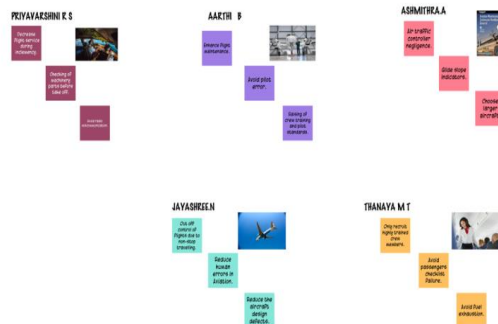


2. PROBLEM DEFINITION & DESIGN THINKING

2.1 EMPATHY MAP



2.2 IDEATION & BRAINSTORMING MAP





Story 1

- <

Comparison of number of accidents happened in Aboard, Fatalities

>
- Number of accidents based on years

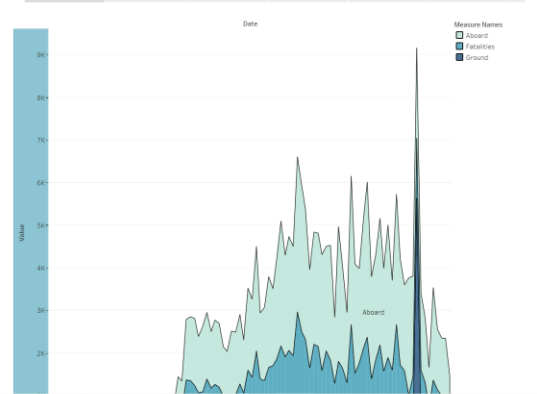
Accidents happened in 1972 based on months

Operators which held maximum number of accidents

Top 10 locations which held more accidents rate

Types of aeroplane which dealt with maximum accidents

Acc yes



Story 1

- <

Comparison of number of accidents happened in Aboard, Fatalities

Number of accidents based on years

Accidents happened in 1972 based on months

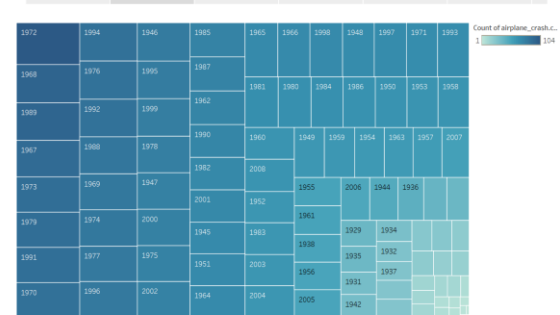
Operators which held maximum number of accidents

Top 10 locations which held more accidents rate

Types of aeroplane which dealt with maximum accidents

Acc yes

>



Story 1

- <

Comparison of number of accidents happened in Aboard, Fatalities

Number of accidents based on years

Accidents happened in 1972 based on months

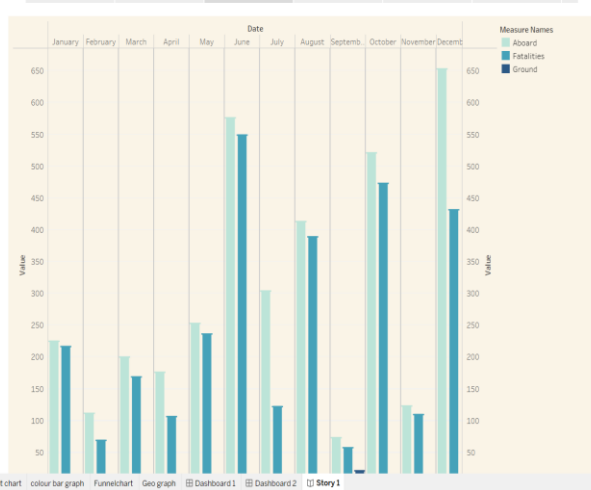
Operators which held maximum number of accidents

Top 10 locations which held more accidents rate

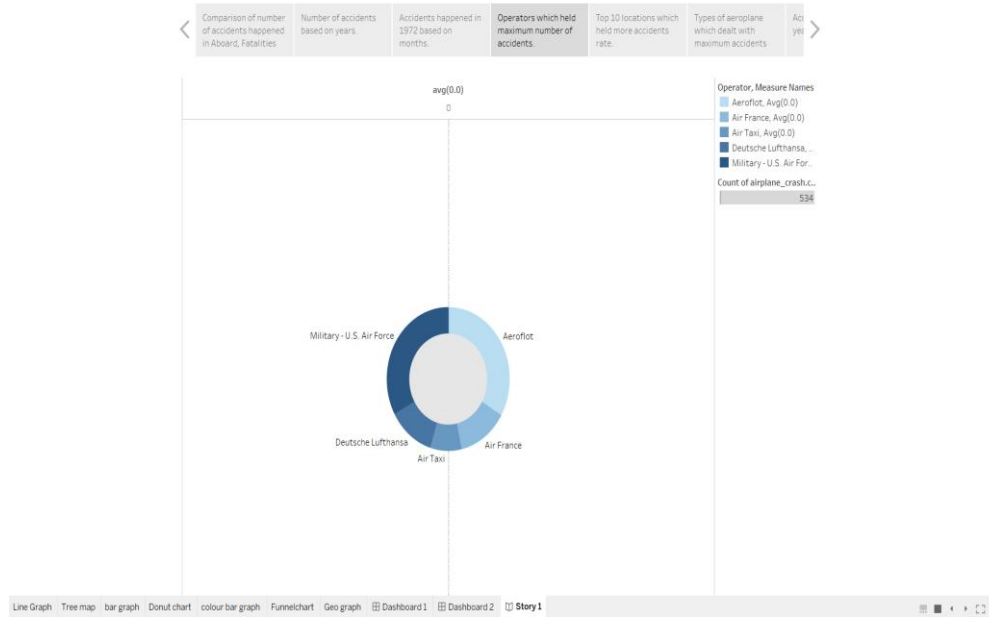
Types of aeroplane which dealt with maximum accidents

Acc yes

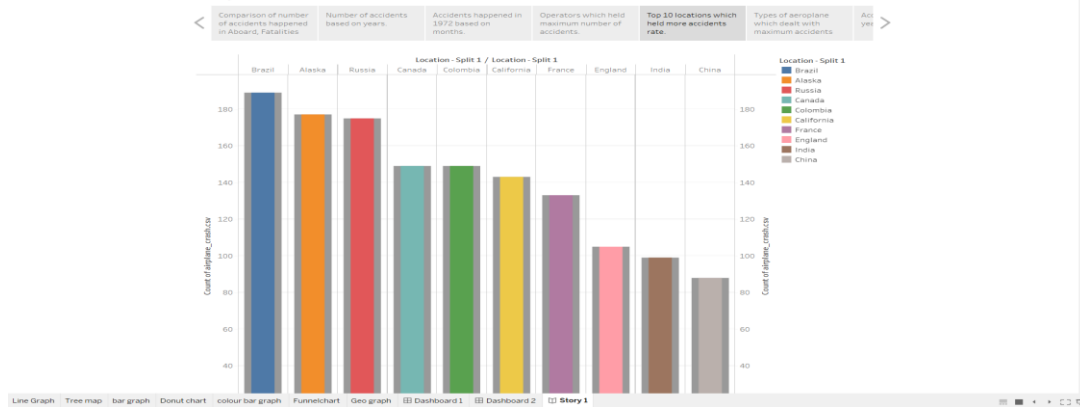
>



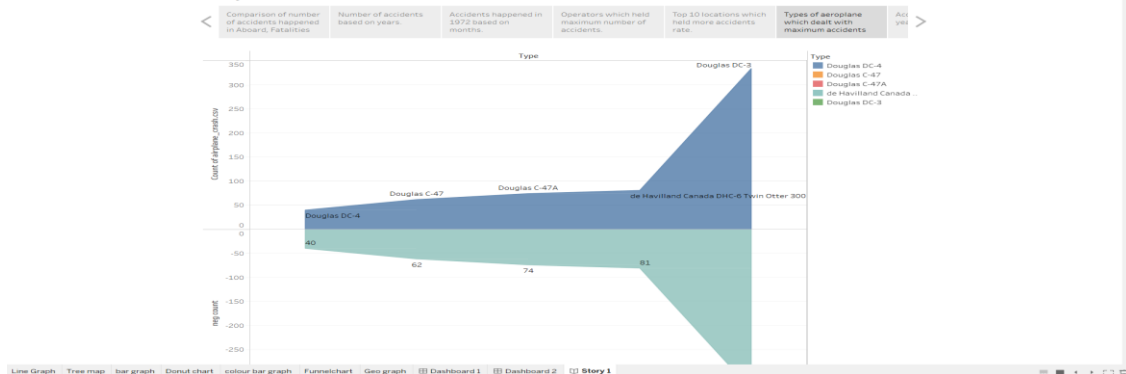
Story 1



Story 1



Story 1





4. ADVANTAGES & DISADVANTAGES

The project gives us a detailed information and data about accidents rate in different zones and years. This helps us to understand complex data sets by creating a graphical representation which makes it more accessible, intuitive & easier to interpret. The visual elements such as charts, graphs & maps used in the project helps us to quickly identify patterns, trends & outline in the data.

But the project does not give an outline of the data of crashes occurred due to various other problems including: machinery defects, radio miscommunications, Human errors, Flight maintenance and Turbulence issues.

5. APPLICATIONS

The project helps us to identify any potential causes of the accident. The results of an airplane crash analysis include recommendations for improving safety and preventing similar accidents in the future. These recommendations may be implemented by the relevant authorities or industry organizations.

6. CONCLUSION

The project includes various visualization, the first visualization involves a comparison of number of accidents happened aboard, fatalities and ground, which shows us that more accidents occurred in aboard followed by fatalities and ground.

The second visualization is a tree map which gives us the insight of number of accidents based on the years from which we identify that at the year 1972 maximum accidents happened, so the next visualization involves with the accidents happened in 1972 based on months. The project includes a donut chart based on the operator which held maximum number of accidents. In the fifth visualization it involves the top 10 location which has more accident rates. The project includes a funnel chart which indicates the top 3 types of airplane which dealt with maximum accidents. Next involves accidents based on regions.

7. FUTURE SCOPE

The project gives us information regarding various data but failed to give us a solution for the arising problem in airplane crashes. The new feature we would like to include is the measurements to avoid aviation accidents and various other problem.