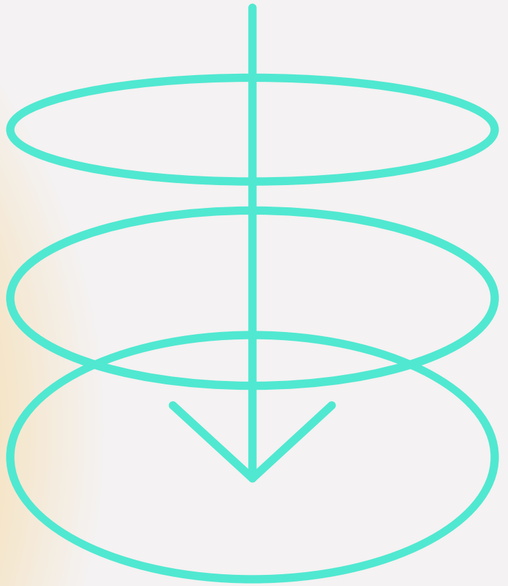
Naviar Corporation

Aircraft Project Analysis



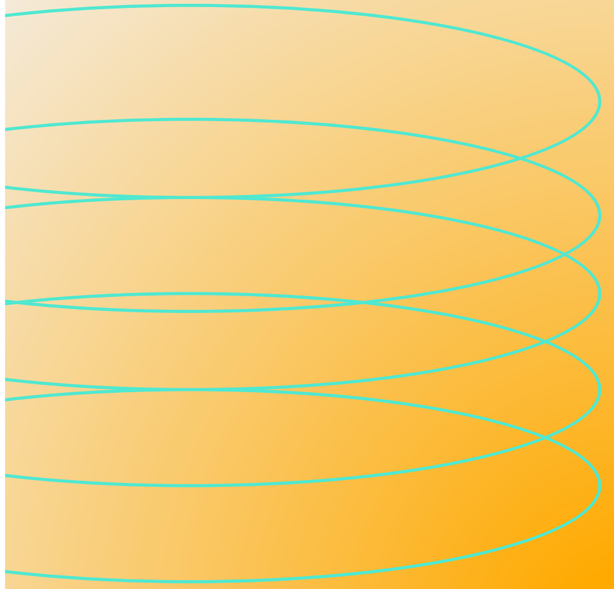
Presenter Phil Conrad

01 - Overview
02 - Business Understanding
03 - Data Understanding
04 - Data Analysis
05 - Recommendations
06 - Next Steps

01 - Overview

Naviar Corporation is a company that rents and sells luxury vehicles and offers chauffeuring services. However, the company has decided to venture into the aircraft industry, purchasing, and operating airplanes for commercial and private enterprises.

In this project, the public dataset from the National Transportation Safety Board will be used to determine the aircraft that have the least amount of risks.



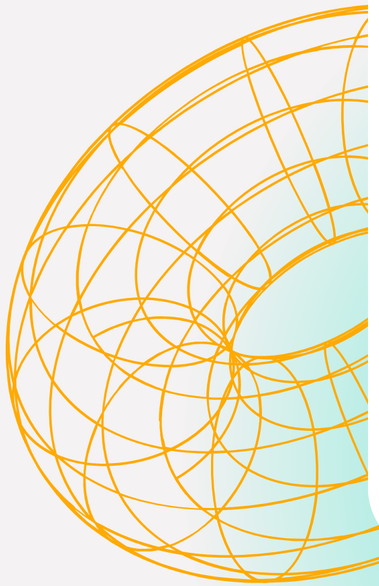
02 - Business Understanding

Naviar Corporation requires a risk-free set of commercial and private aircraft to avoid casualties and financial losses that might damage the business. I am responsible for analyzing data/findings and developing insights and recommendations to help the new aviation division head decide which aircraft to purchase.

03 - Data Understanding

The aviation accident data (1962-2023) from the National Transportation Safety Board highlights the civil aviation accidents and selected incidents in the United States and international waters. In this case, there would be statistics about the plane descriptions, type of accidents, and the number of fatalities/injuries sustained during the accident.

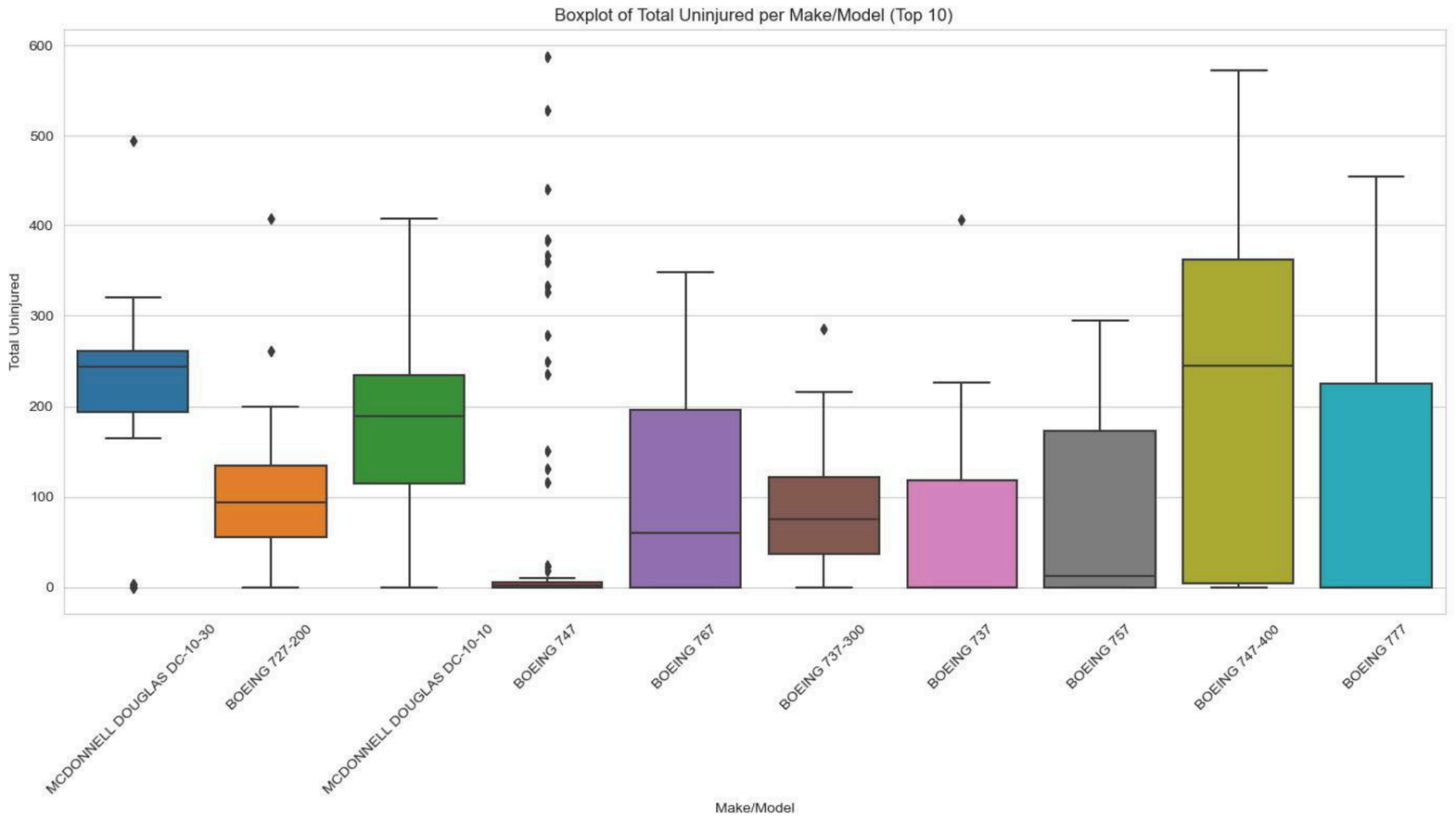
There were many missing values in the dataset, so I had to analyze them before cleaning.



04 - Data Analysis

- I had to clear out the rows with the missing values in order to have a proper values.
- I then filtered the columns that are needed to narrow down the analysis.
- The make/model and the total fatalities, injuries and uninjuries are the most important columns for this project.
- Therefore, there were used to create 3 visualizations that project the information needed to choose which aircraft to purchase and operate.

04 - Data Analysis



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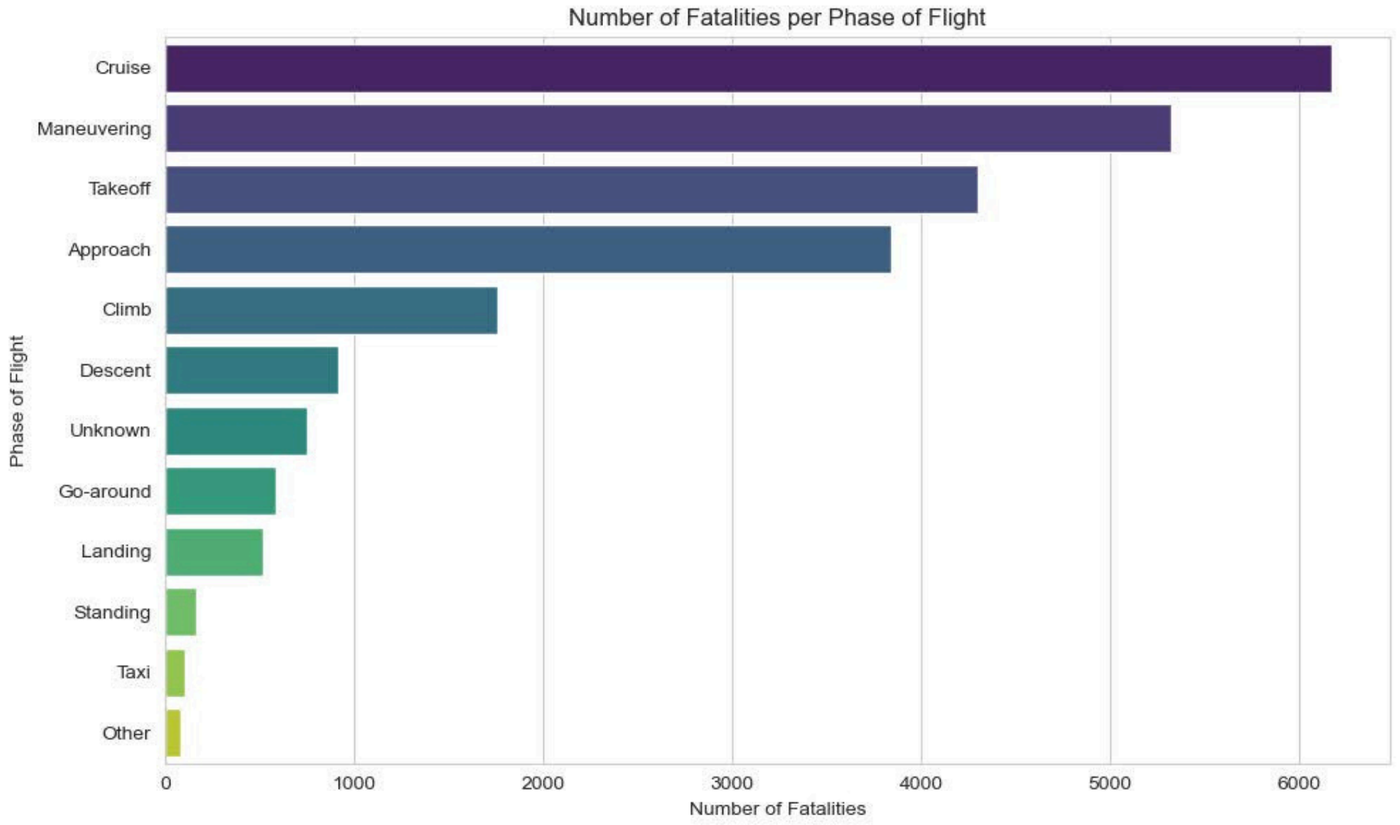

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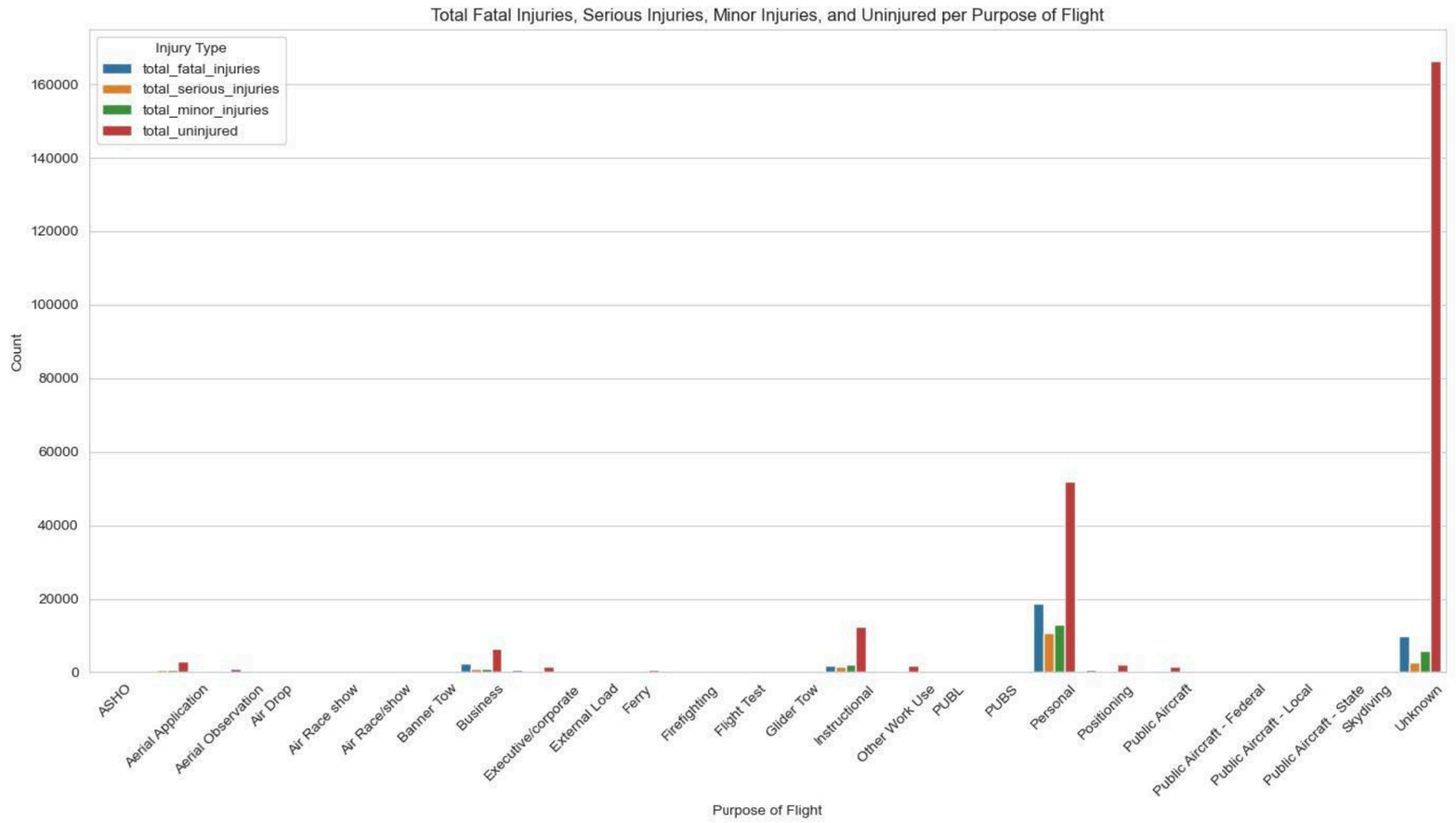

05 - Recommendations

- The BOEING 737 aircraft has the highest number of total uninjured passengers, making it a safe choice for purchase and operation.
- Cruise is the most fatal flight phase, so avoid it.
- Personal flights have the highest number of uninjured victims, making them the most recommended.

Thank You