Analysis for Business Enterprise in Aviation

Understanding the business and needs

- *We are a transportation company*
- *We want to expand into the aviation industry*
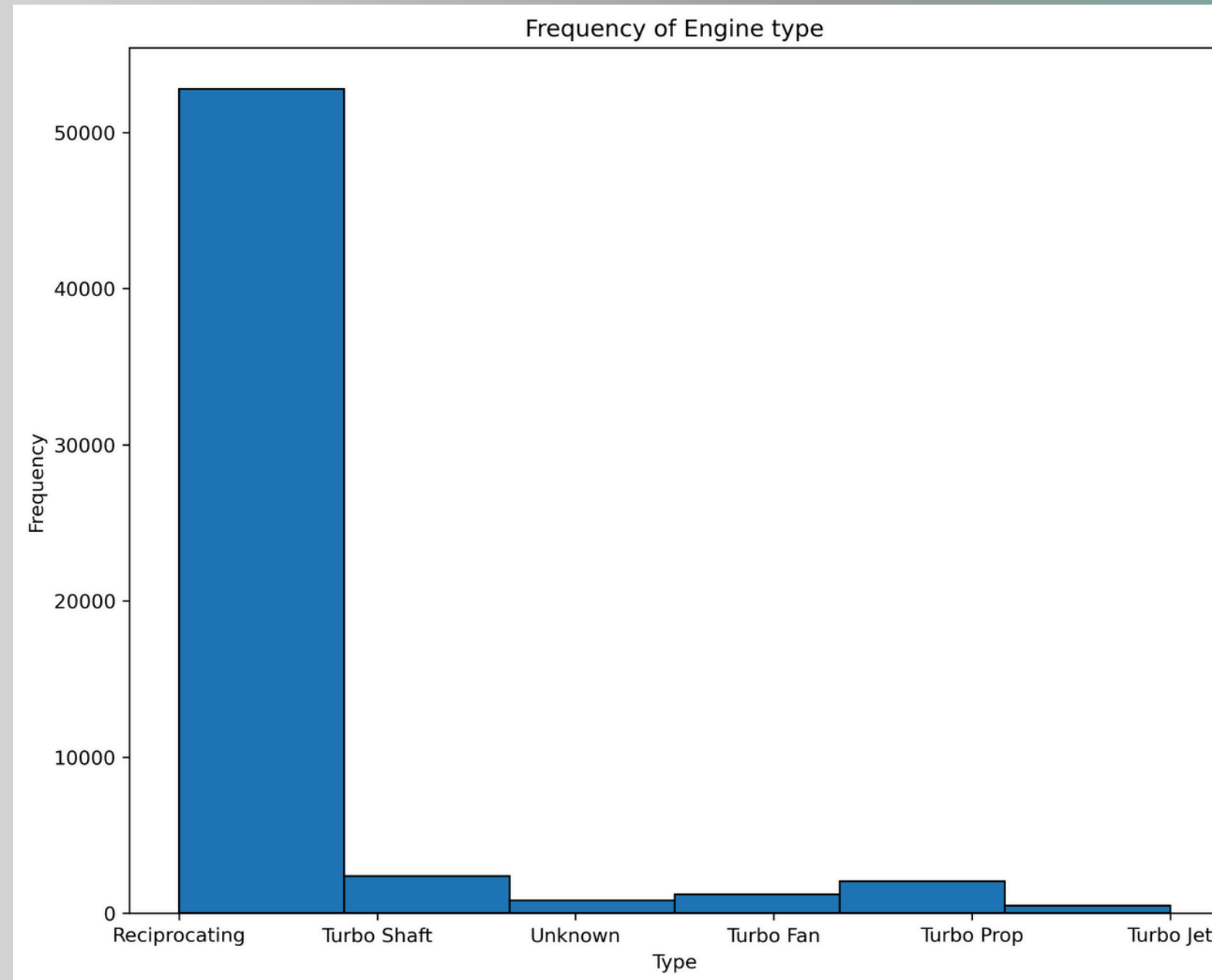- *We want to increase revenue*

Objectives

- **To get the best aircraft with low potential risk**
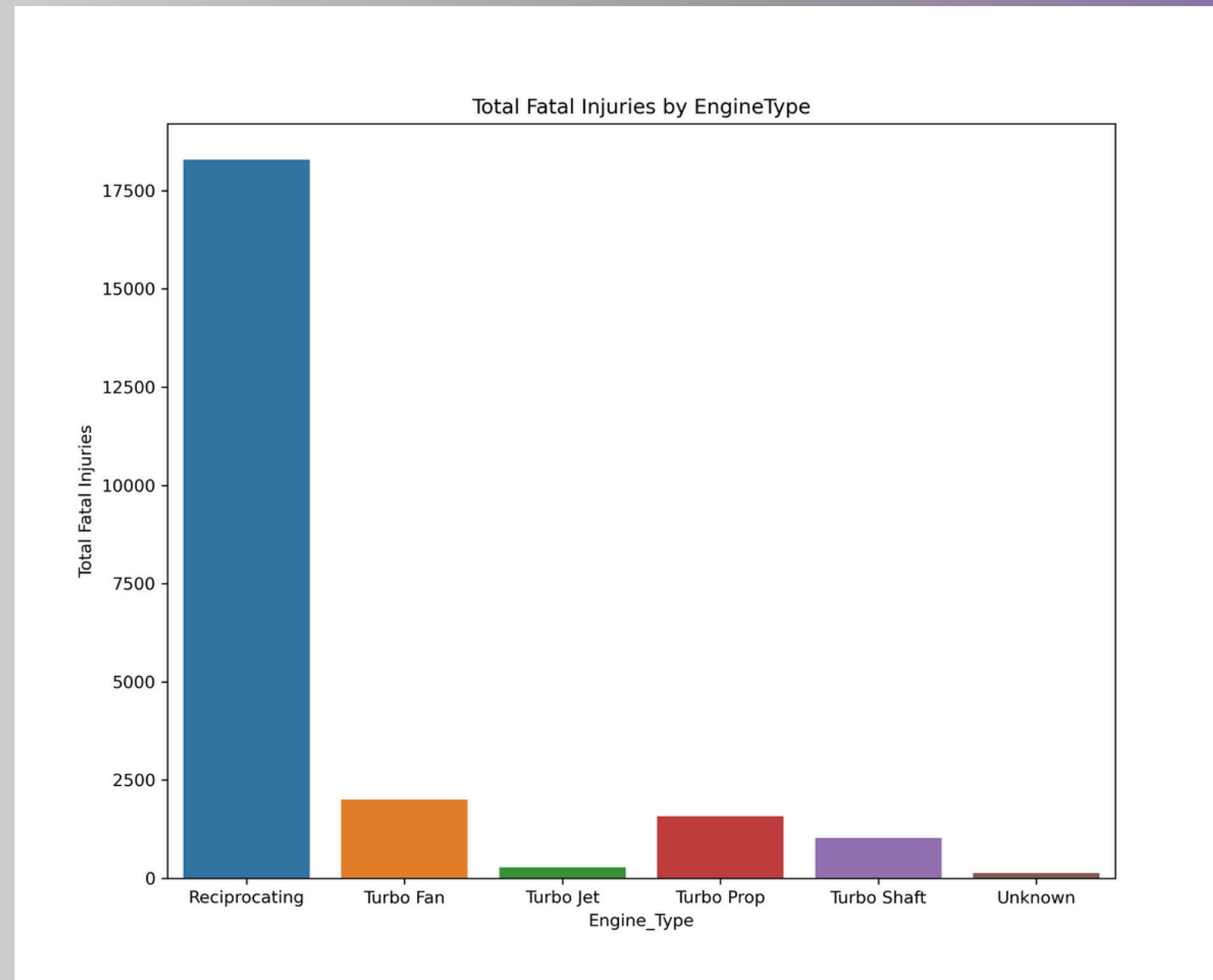- **To get aircrafts with the highest safety standard.**

Data preparation

- **WE used data from NTSB which includes statistics from1948 to 2022**
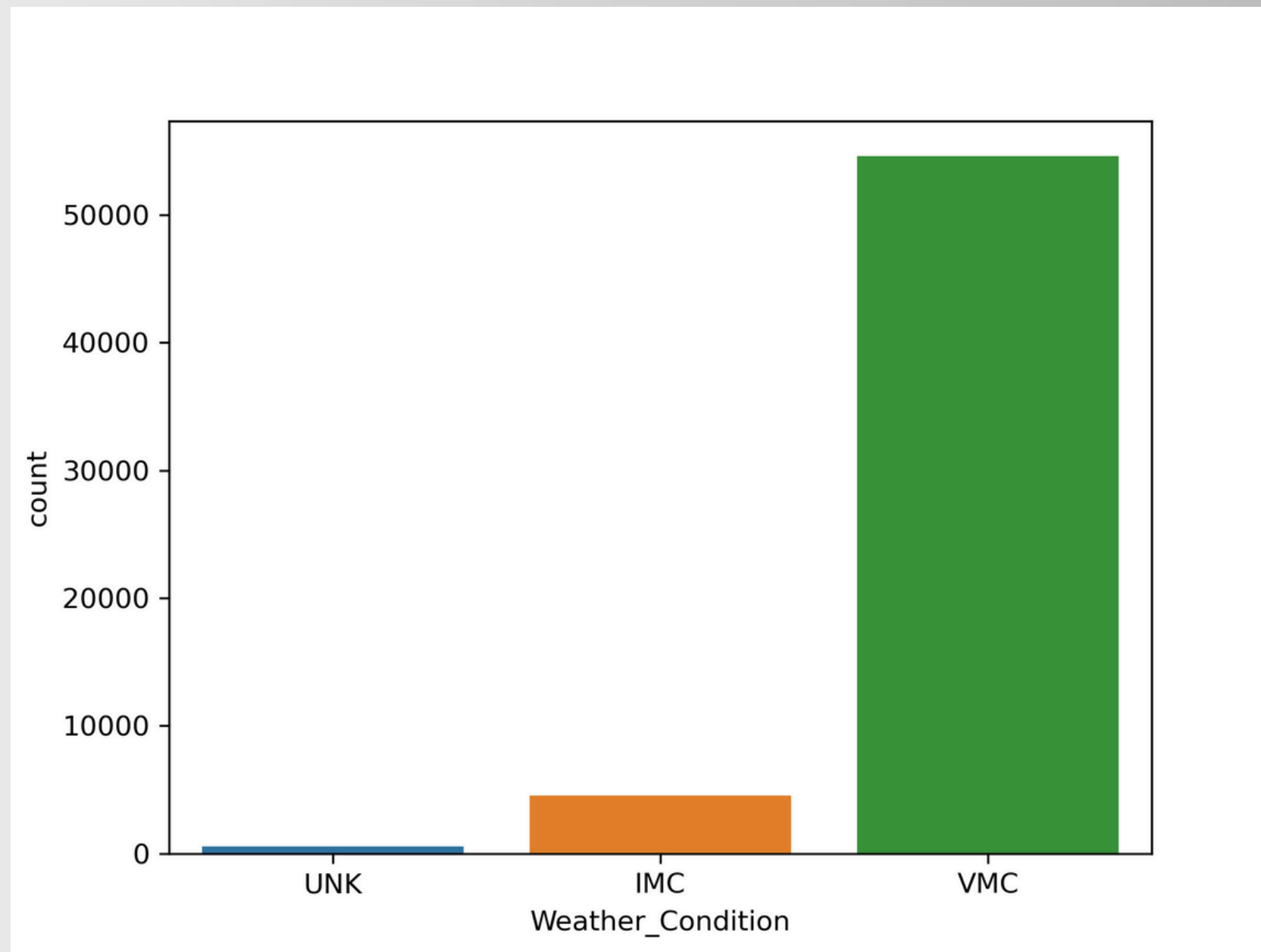- **We cleaned the data by using columns required, and replacing or removing missing values**

Data Analysis Visualisations to get clarity on data

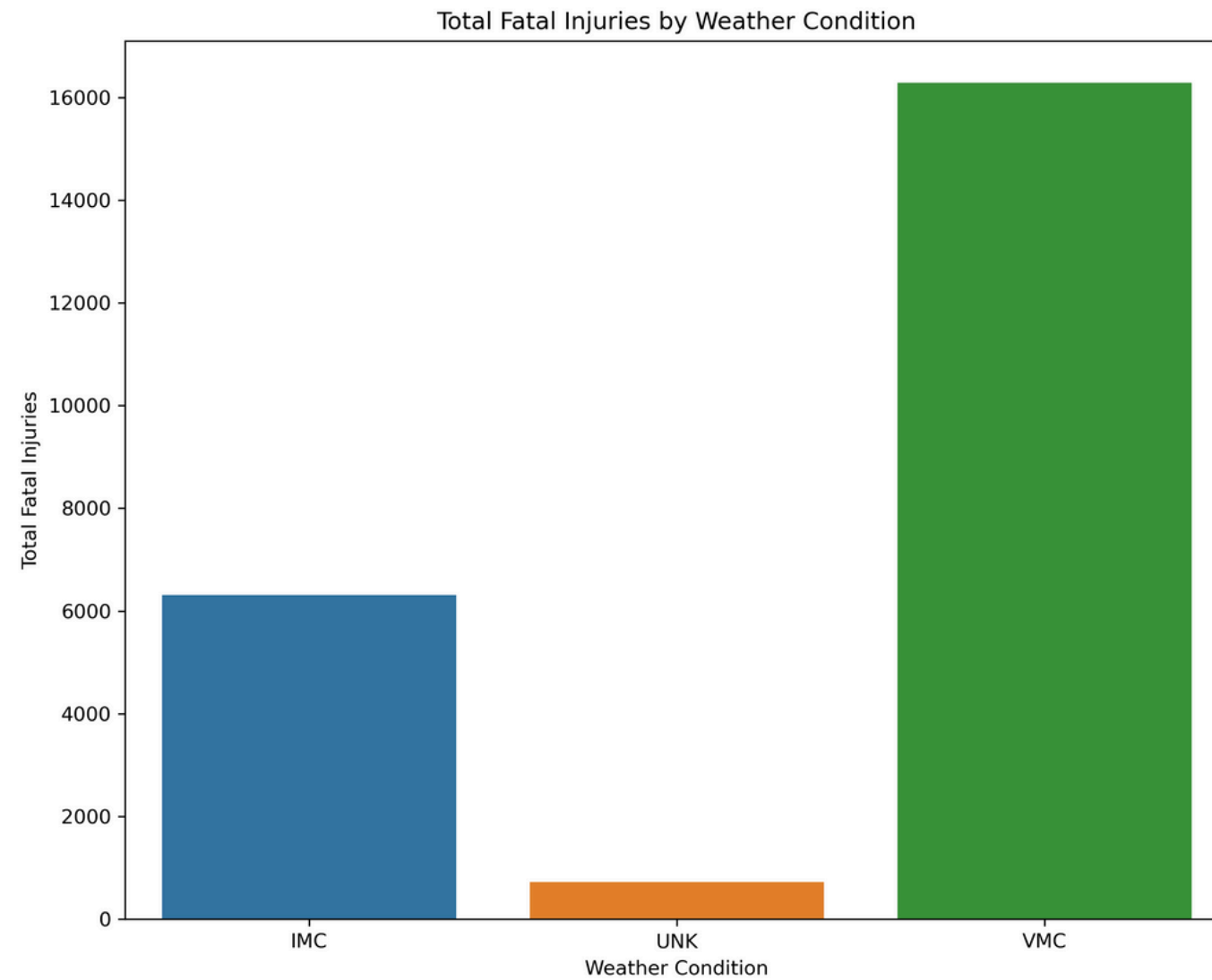**The above chart shows the Reciprocating engine type is most prefered**

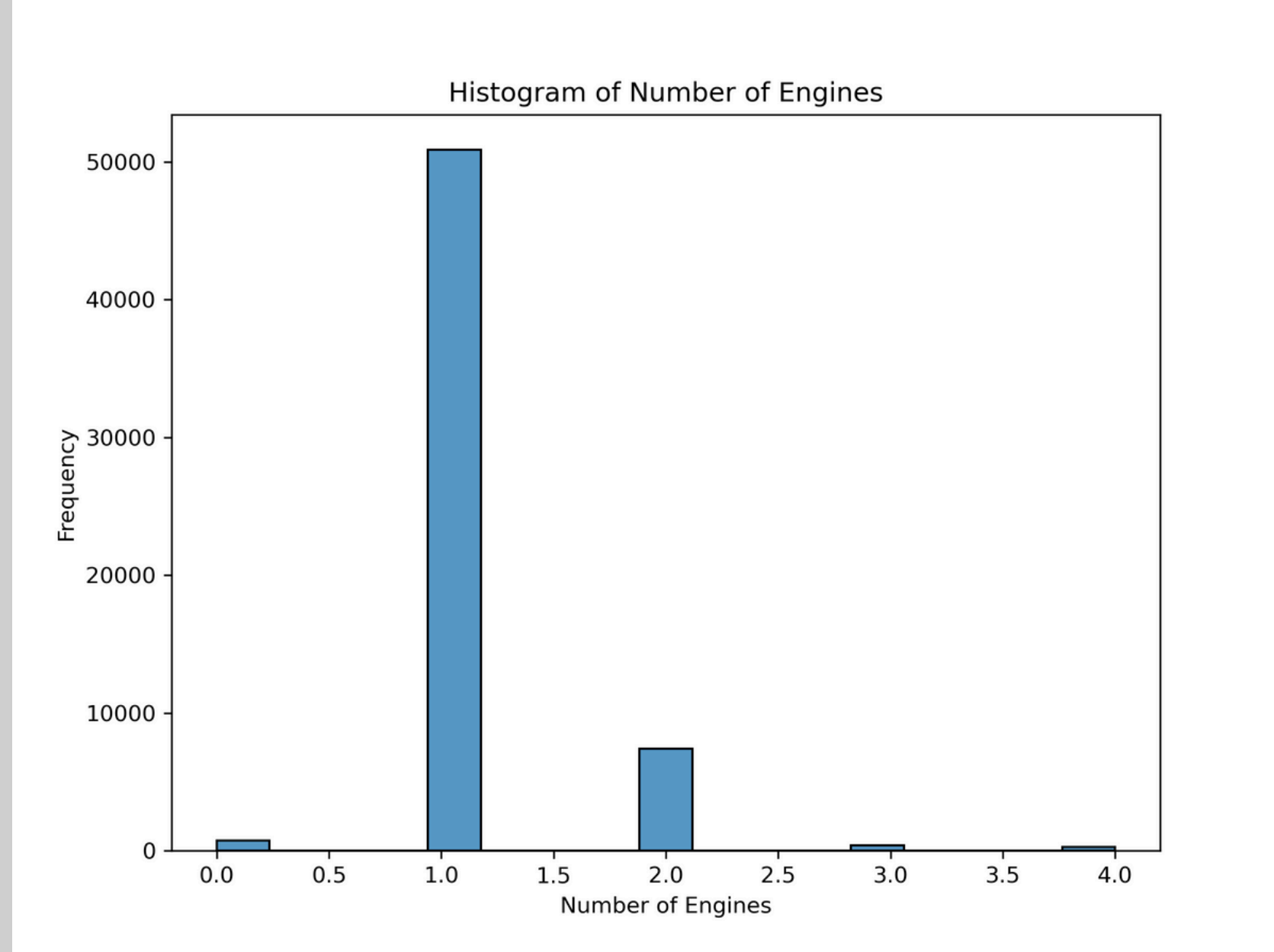Chart shows more fatalities with Reciprocating engine type probably because they are most commonly used.

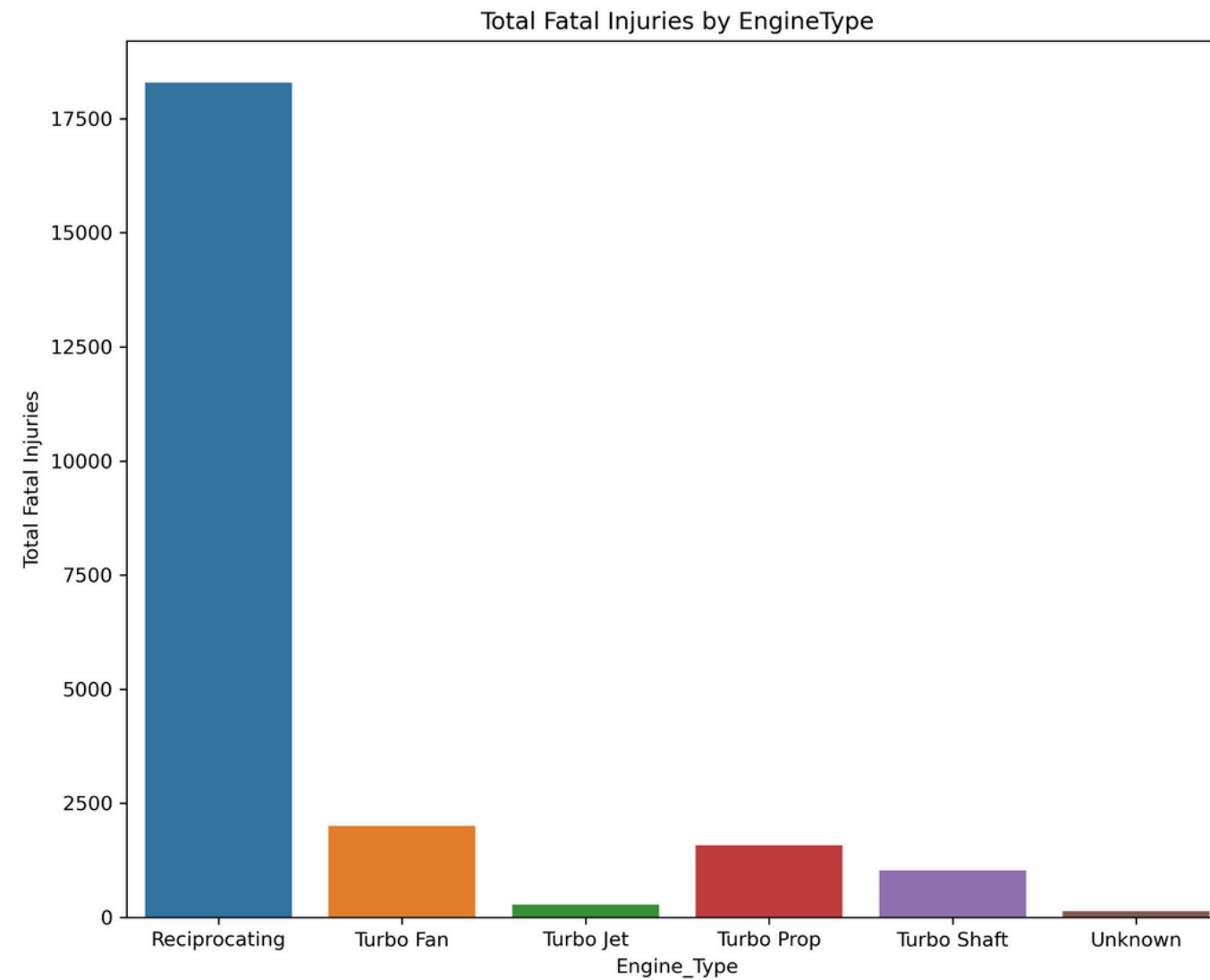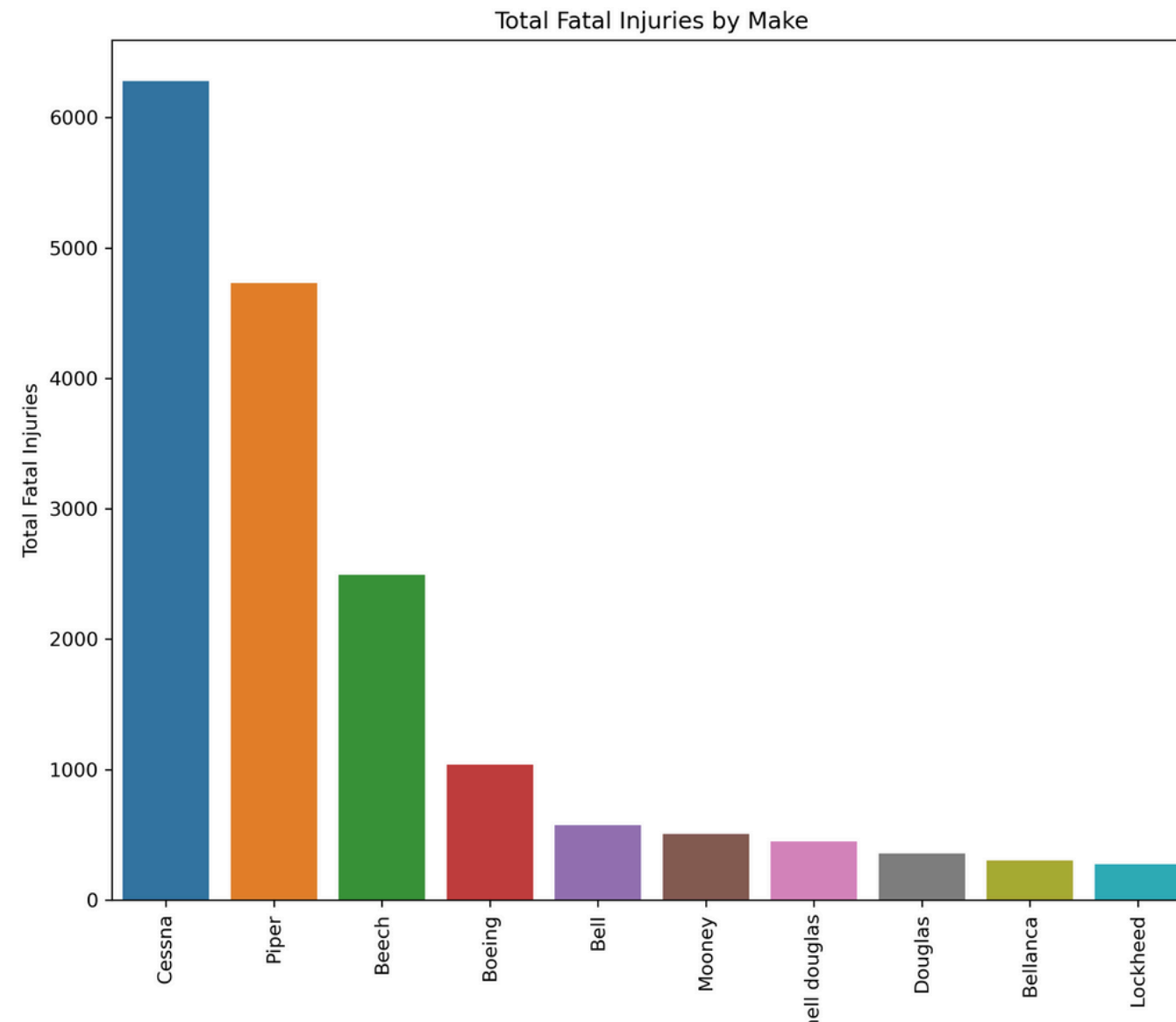**The chart shows the frequency of incidences occured the most when the visuals of weather were clear**

Total Fatal Injuries by Weather Condition

The chart above shows most fatalities occured due to clear visual weather conditions and not instruments

Histogram of Number of Engines

The graph shows planes with 1 engine are most commonly used.

Total Fatal Injuries by EngineType

The Chart shows single engines cause most fatalities

Total Fatal Injuries by Make

The Chart above shows fatalities by top 10 Makes with Cessna bein at the top the list

Summary

- **Multiple engine planes are safer**
- **rigourous training for pilots**
- **Latest technological advanced planes should be used**
- **More research is required**

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