

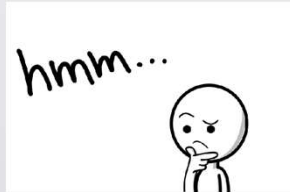


Aircraft Risk Analysis

Determining Low Risk Aircraft Operations to Invest in

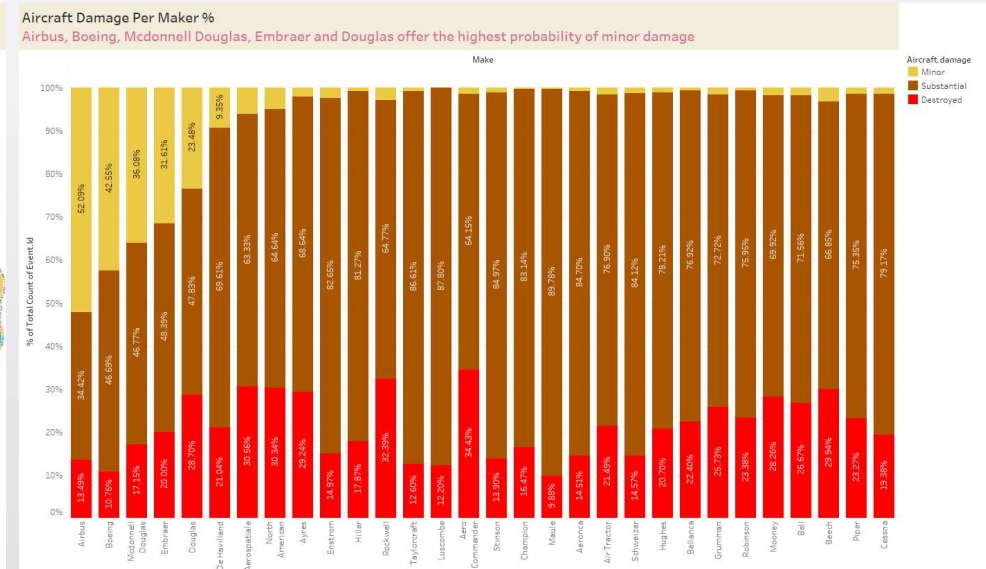
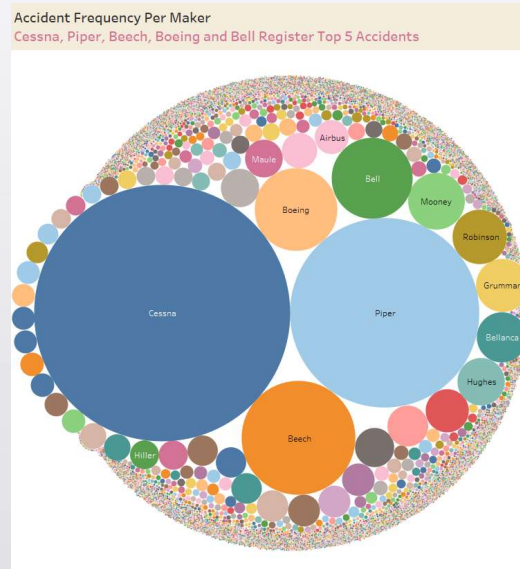
Business Overview

- Our Company's expansion plan looks to invest into the aviation industry
- This projects seeks to assess risk potential from analysis of aviation accident data from 1962 to 2023
- This should provide useful insight into which aircrafts to purchase to minimize operational risks



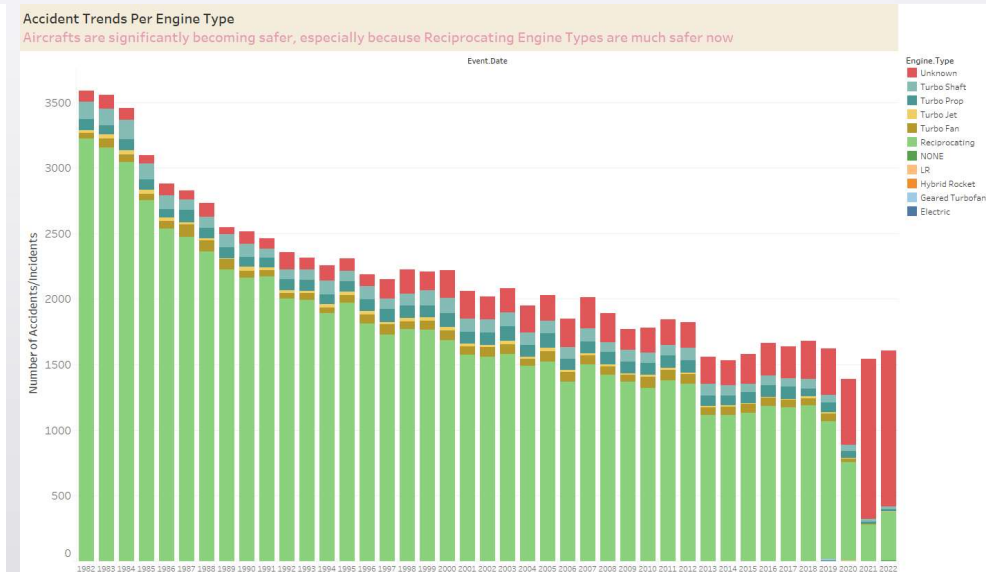
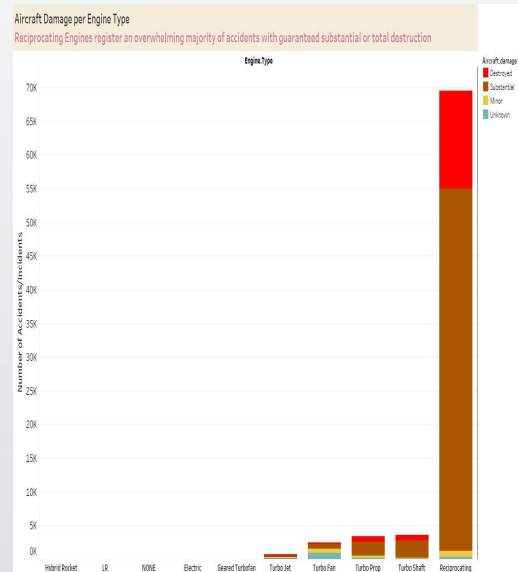
Observed insights from the accident data

- It is important to consider the probability of accidents per manufacturer
 - Cessna registers highest accident rate
- It is also important to consider the severity of aircraft damage in the event of an accident
 - Airbus and Boeing register the lowest probability of substantial-to-total damage in the event of an accident



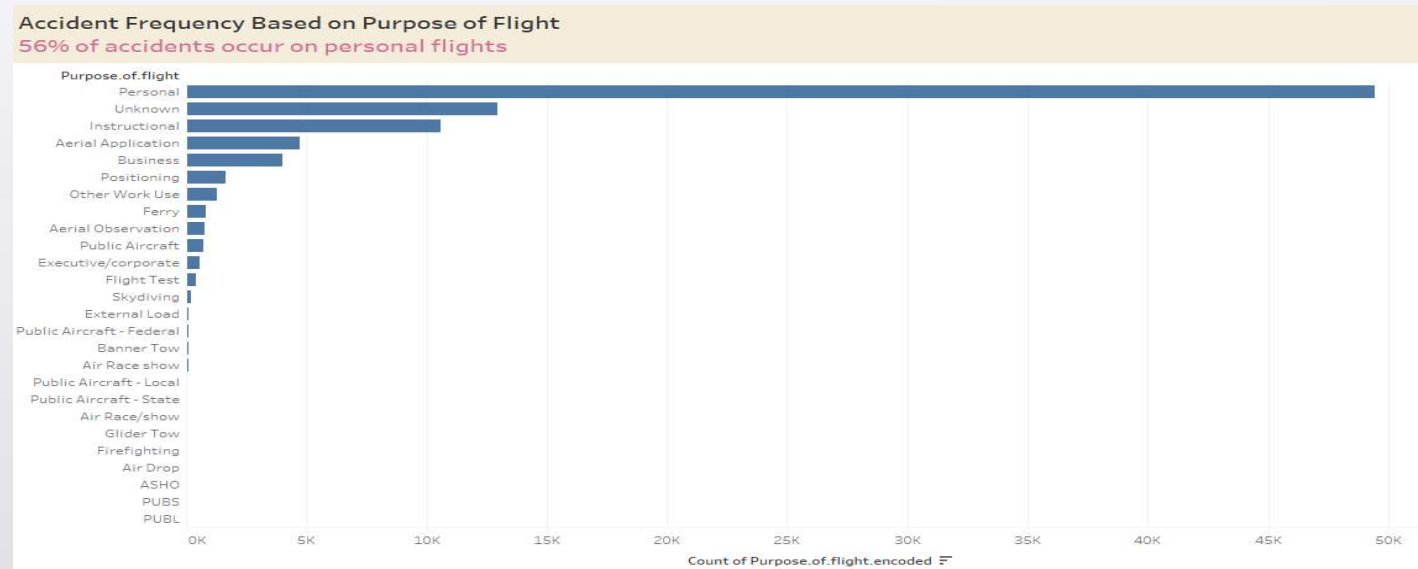
Observed insights from the accident data

- It is important to consider the probability of accidents per engine Type
 - Reciprocating Engine Aircrafts yield the highest number of accidents
- However, the number of accidents has steadily declined over the years, more-so in parallel with the decline of reciprocating engines
 - Is this because reciprocating engines have gotten safer?
 - Or is this because reciprocating engines are not being used as much today??
 - Another study required to verify this point



Observed insights from the accident data

- Personal flights yield the highest number of accidents
- This is a high risk venture that the company should steer off from





Conclusions & Recommendations

- More studies required to put the accident insights in correct context with respect to the total population of aircrafts in operation for those years
- The risk associated with operating aircrafts for personal flights is too high
 - The company should avoid a venture dealing in personal flights
- For high occupancy operations, Airbus and Boeing appear to show lower risk of substantial/total destruction of the plane in the event of an accident