

Evaluating Aircraft Investment Risks for Prime Ascend INC.

Identifying Low-Risk Airplanes for Commercial and Private Enterprises

Presentation to the management of Prime Ascend INC

Introduction

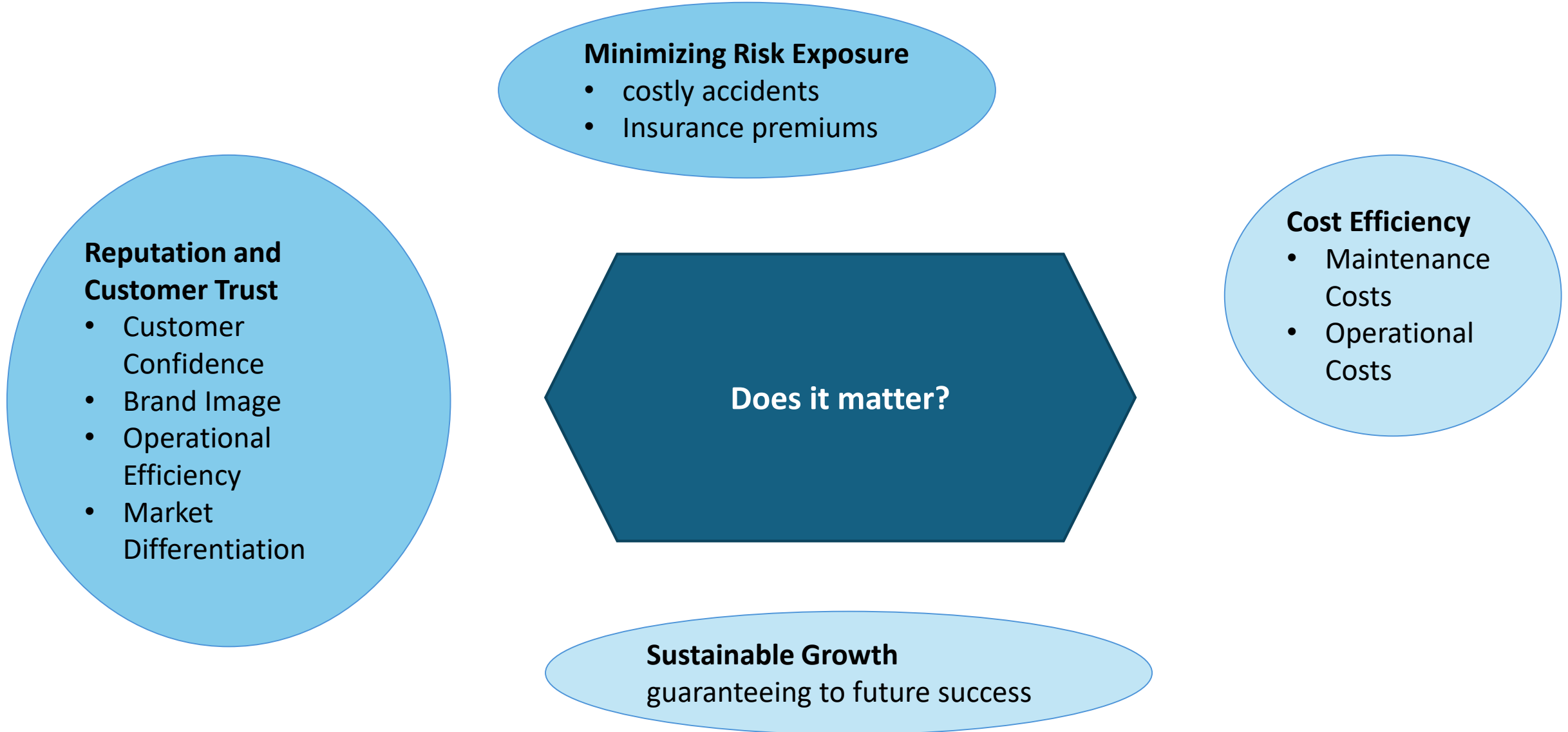
Background

Following the current macroeconomic situation globally affecting the financial markets and property sectors, Prime Ascend INC. is looking into expanding into the aviation industry to diversify its portfolio.

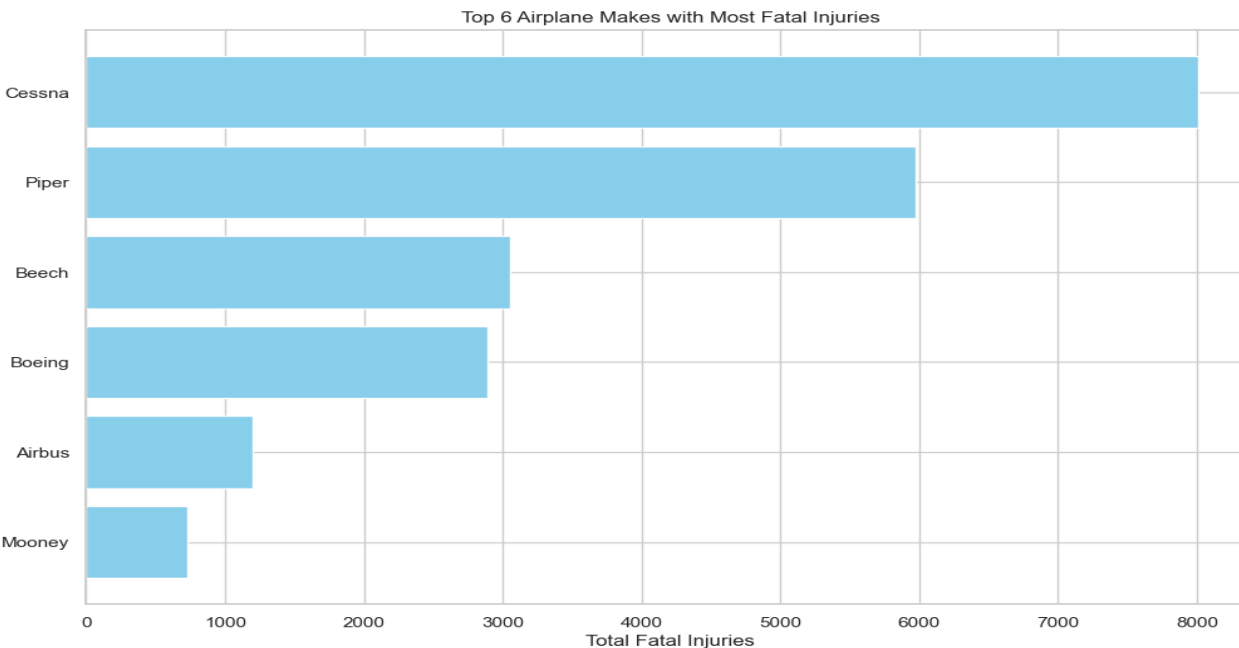
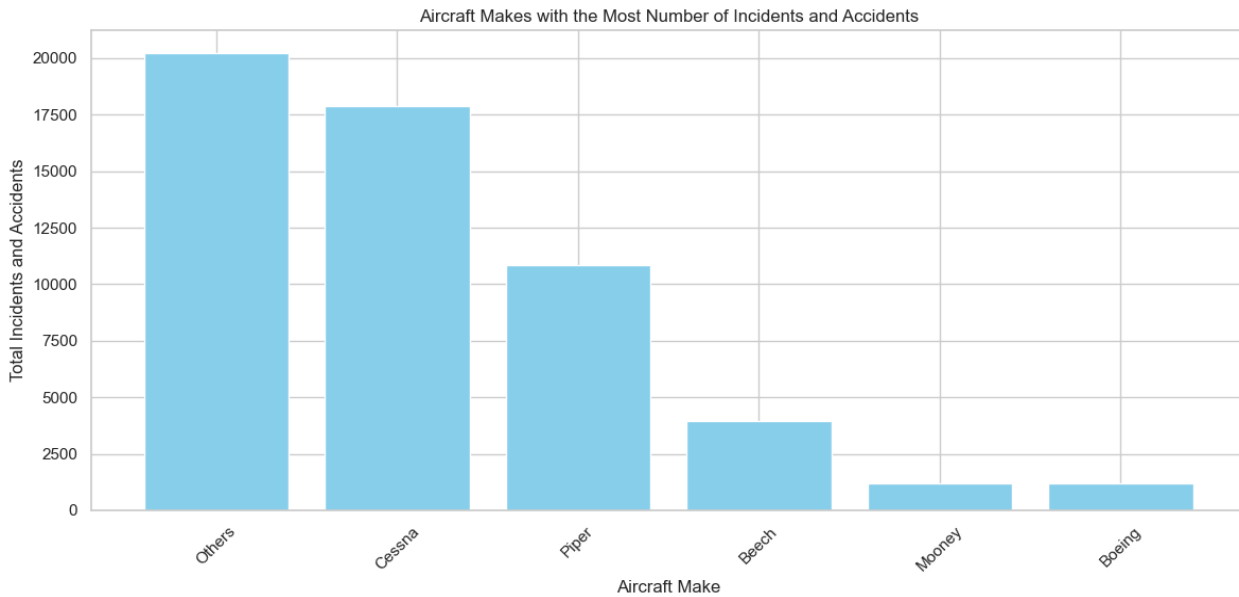
Objective

To determine which airplanes present the lowest risk for Prime Ascend INC. as they expand into the aviation industry.

Why is it important



Aircrafts with the most accidents and fatalities



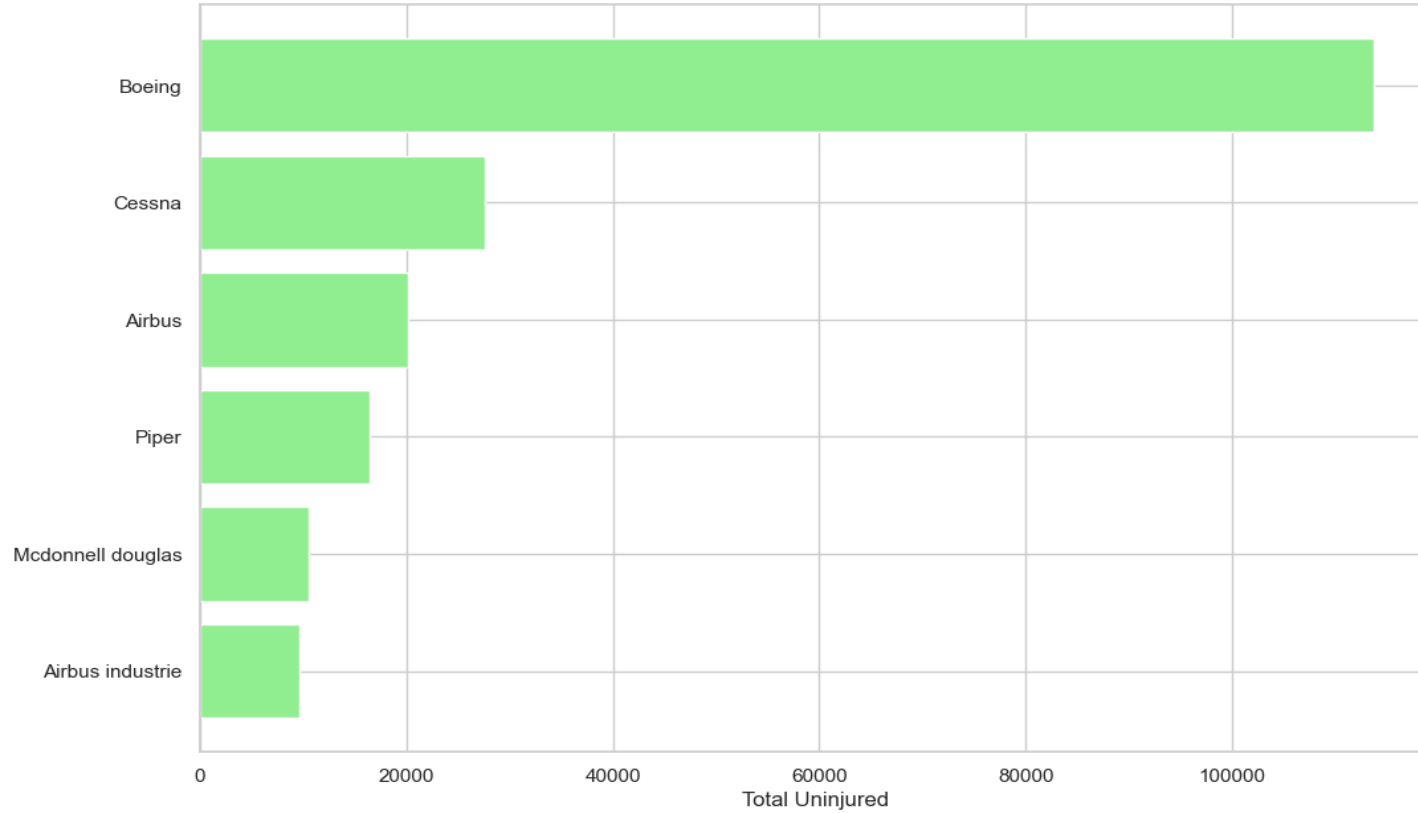
- The data available data on the accidents and fatality rate runs from 1948 to 2022. which is enough to give a true representation of the risks in the aviation industry.
- Analysis of the data was done using Python.

Commentary

- After the analysis , Cessna was noted to be the make with the most accidents and incidents. And also with the most fatalities
- The company should avoid investment in the aircraft of the Cessna make

The most safe aircraft

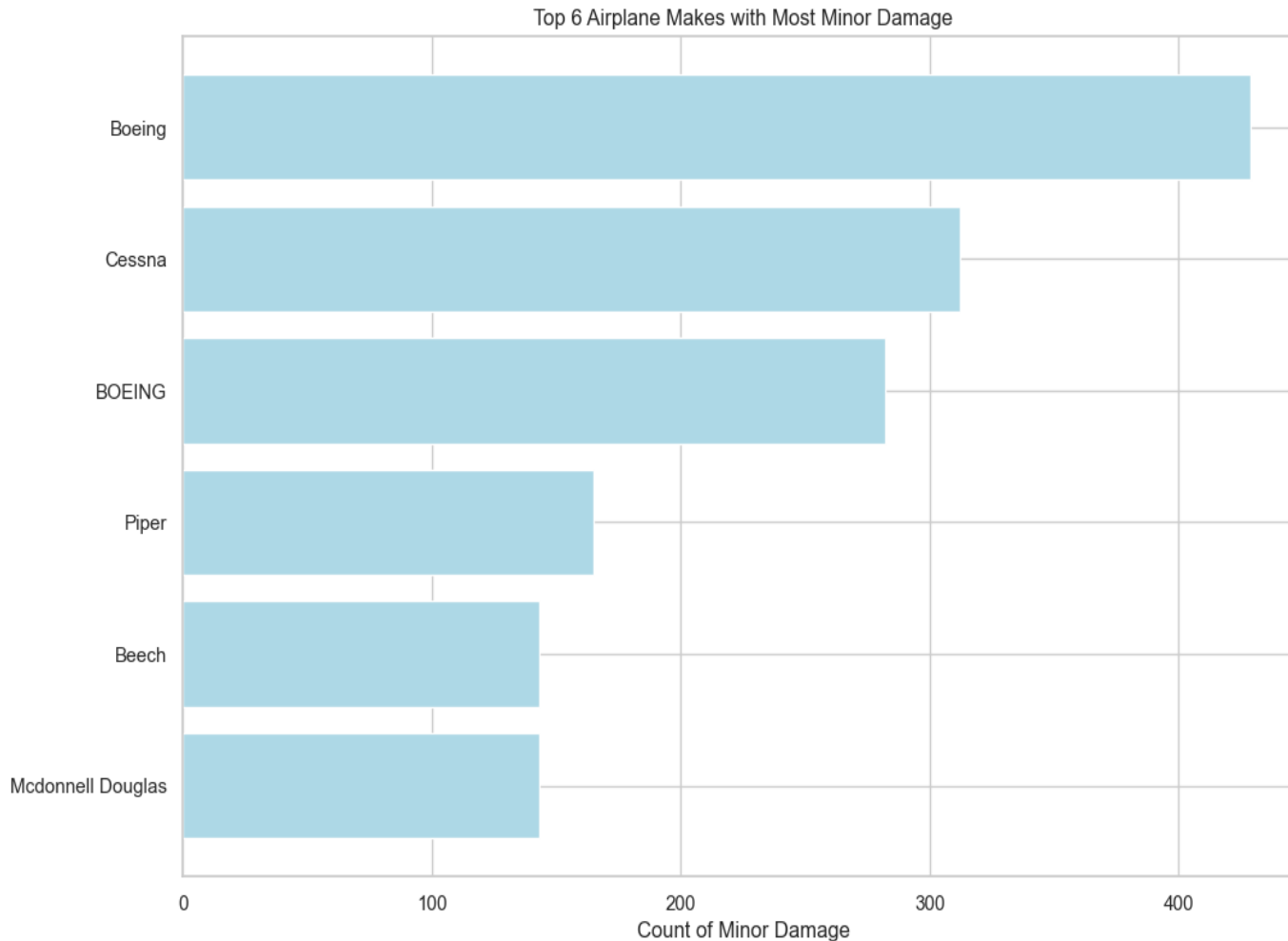
Top 6 Airplane Makes with Most Uninjured Individuals



Commentary

- Airplane of the Boeing Make had the most number of uninjured people after the incidents/accidents.
- Boeing was among the top 5 in terms of accidents and incidents.
- This implies that Boeing has safety features that reduce fatalities in case of an incidence.

After accident. Damage?

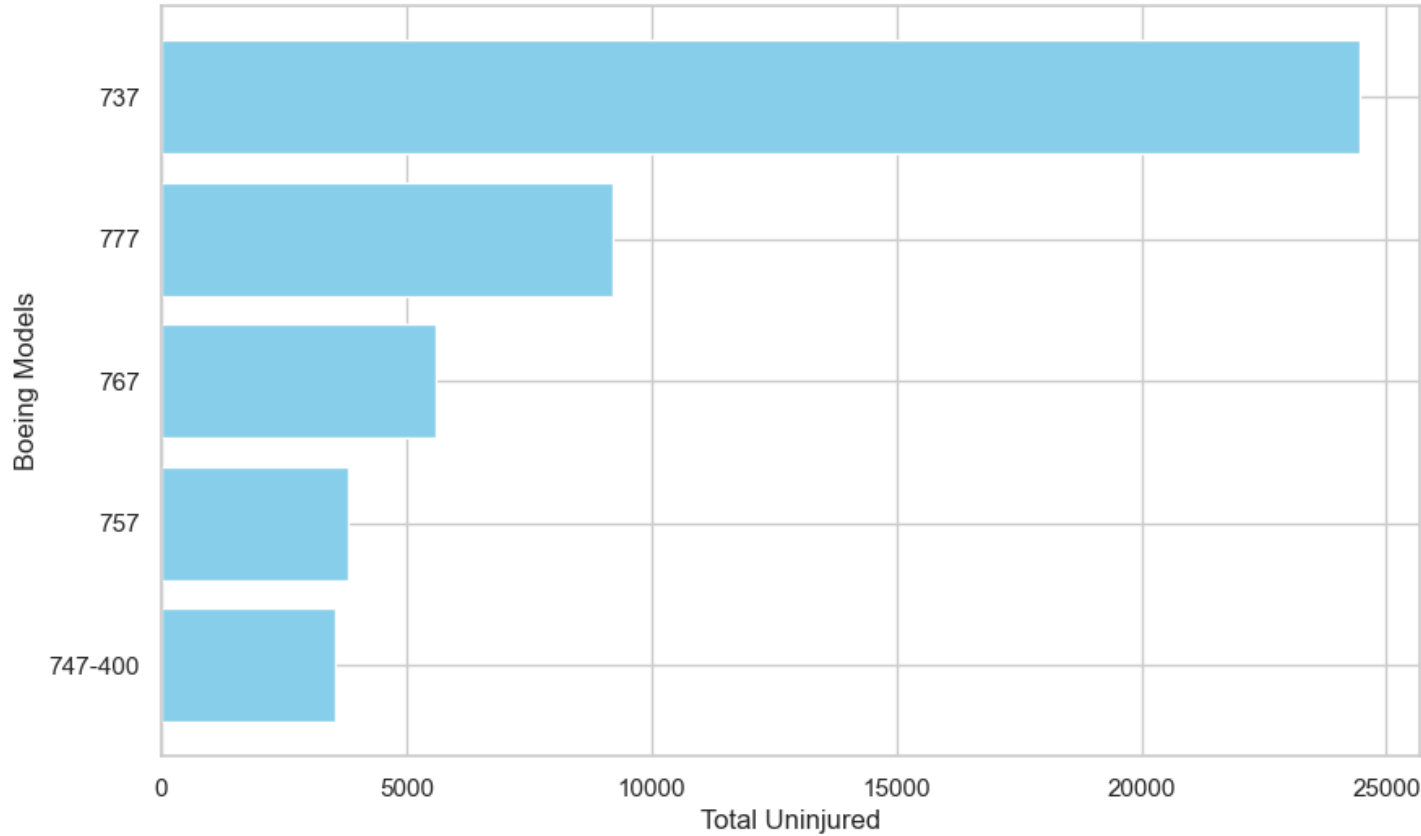


Commentary

- Boeing aircrafts had the most minor damage after accidents thus low maintenance cost incase of the accidents
- This also imply that Boeing is a quality aircraft, thus maintenance cost is low

The Boeing Model....

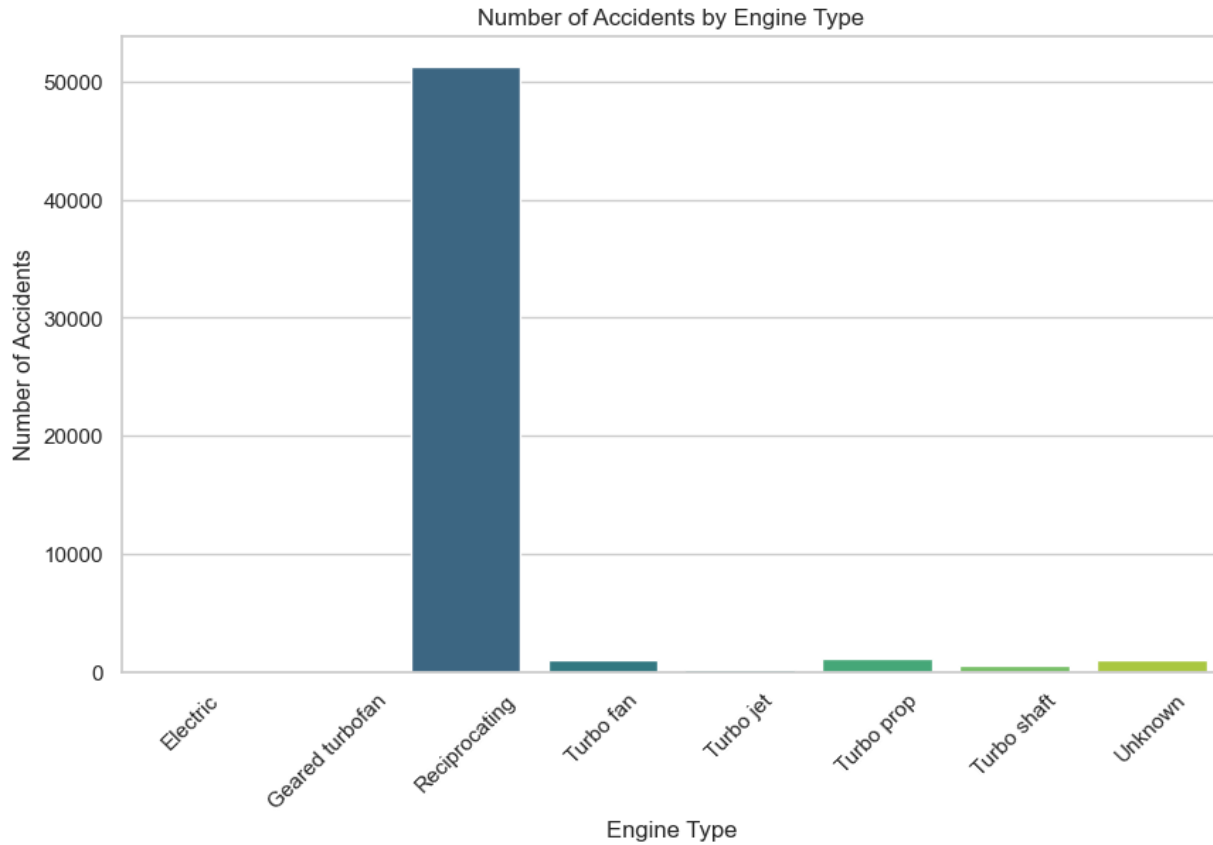
Top 5 Boeing Models with Most Number of Uninjured and Minor Damage



Commentary

- 737 model of Boeing aircrafts had the most minor damage and most number of uninjured passengers after accidents.

Engine type matters



Commentary

- The team noted that aircrafts with the reciprocating engine type experienced more accidents and incidences
- Boeing 737 does not use the reciprocating engine type .

Recommendation

- The team recommends venture into the Aviation industry to increase the streams of income.
- The Team recommends investments into Boeing 737 Aircraft as a low risk aircraft for both commercial and private enterprises
- Going forward and with the guidance of the management of Prime Ascend Inc. the team present the cost benefit analysis of the new venture