
PHASE 1 PROJECT

NON-TECHNICAL PRESENTATION

OVERVIEW

- An analysis of a new diversification plan to Aviation industry
- Focus is on risk evaluation mainly- Aircrafts accidents

BUSINESS UNDERSTANDING

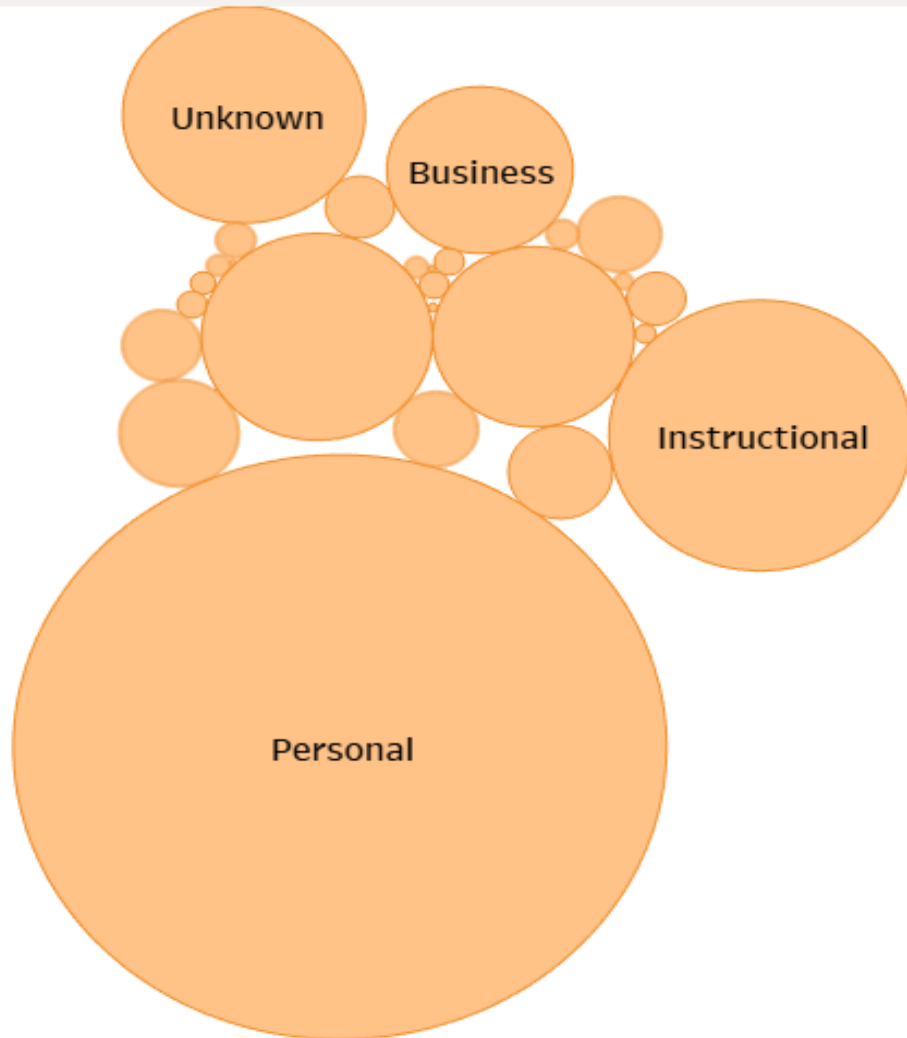
The main goal is to analyze and predict the risks associated with purchasing and operating airplanes for both commercial and private enterprises, as part of my company's new diversification strategy.

DATA UNDERSTANDING

- Investigate the relationship between engine type and the frequency of accidents.
- Examine the correlation between the number of engines per aircraft and the recorded number of accidents.
- Identify and analyze key factors that contribute to aircraft accidents, such as weather conditions and amateur-built aircraft.
- Develop visualizations to effectively communicate the insights and findings derived from the analysis.

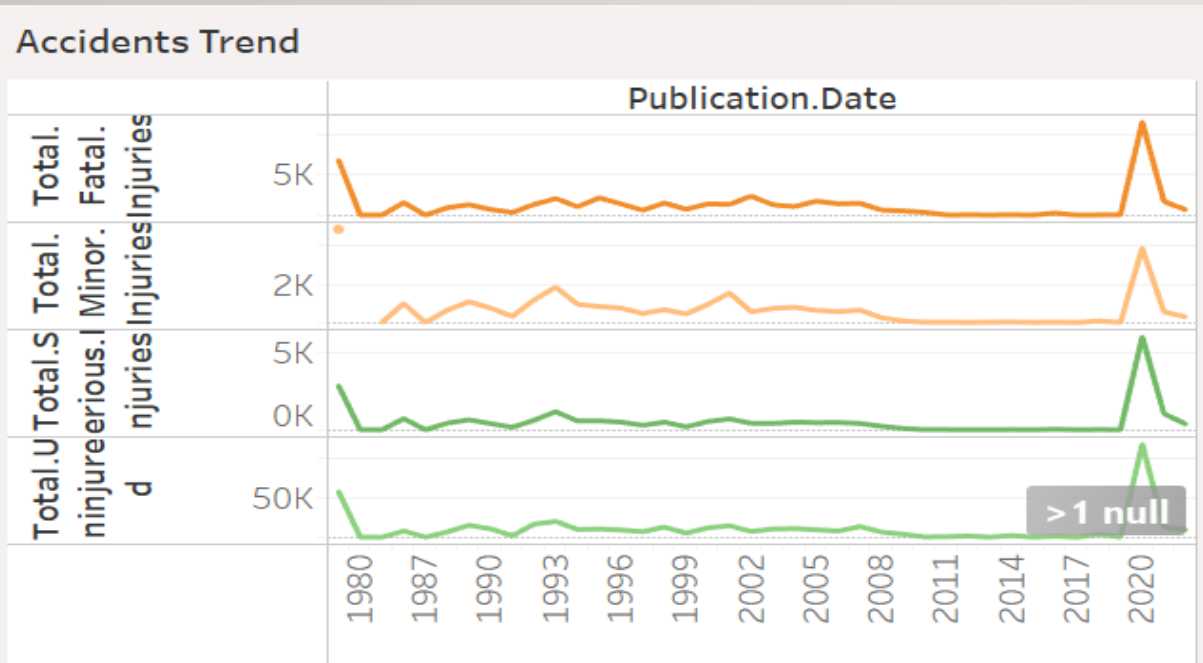
DATA ANALYSIS

Purpose of flight vs accidents



- Nature of the flights- Most accidents happen on personal aircrafts as opposed to the commercial

DATA ANALYSIS



No of accidents by Engine



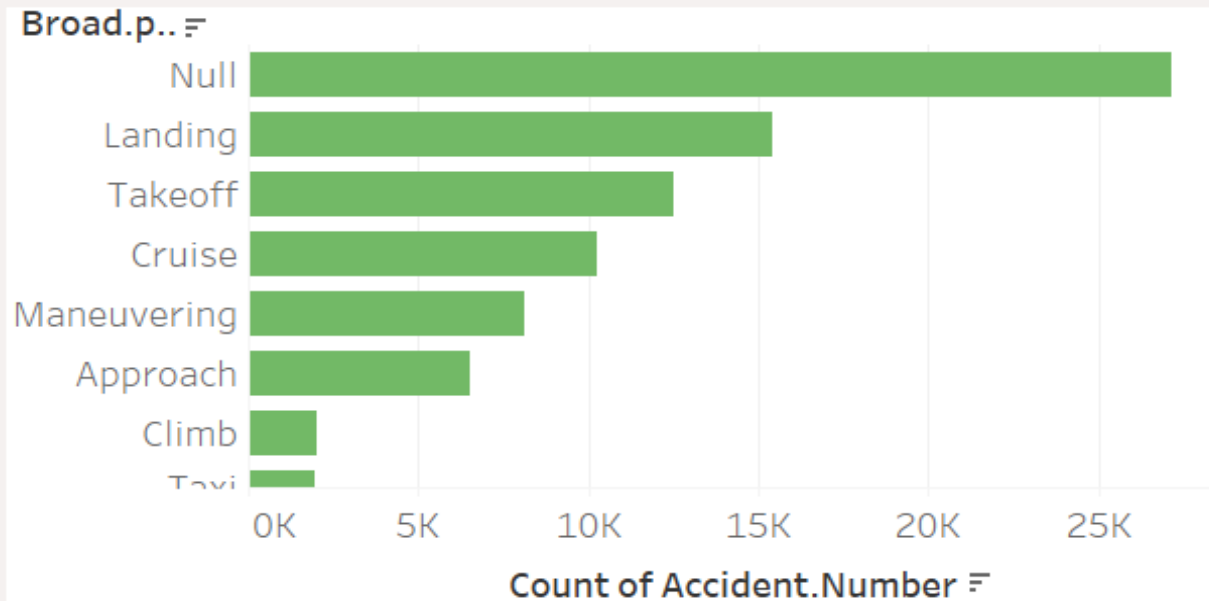
- Engine Types- Reciprocating Engines are very vulnerable to accidents compared to other types of engines
- Trend by Year- Aircraft accidents were very high in 2020 compared to other months

DATA ANALYSIS

Accidents by regions



Phase of flight vs No of accidents



- Most affected Regions- United states and Canada were the most impacted by Aircraft accidents
- Phase of Aircraft accidents- Aircraft accidents were very high during landing than other parameters

RECOMMENDATIONS

- Focus should be more on Commercial aircrafts than private enterprise aircrafts
- Highly discourage any investment on Reciprocating Engines due to their vulnerability
- Study and Trainings: Countries with many minor or non-fatal accidents to be used for targeted pilot training and enhanced preventive measures.
- High risk of accidents in USA- The high percentage calls for more strict enforcement of maintenance and operational guidelines

NEXT STEPS

- Study and Trainings: Countries with many minor or non-fatal accidents to be used for targeted pilot training and enhanced preventive measures.
- High risk of accidents in USA- The high percentage calls for more strict enforcement of maintenance and operational guidelines
- Go to the next level and analyze the other factors e.g. Rate of return as we have only dealt with one perspective

THANK YOU