

Aviation Risk Analysis

Aashish Gatamaneni



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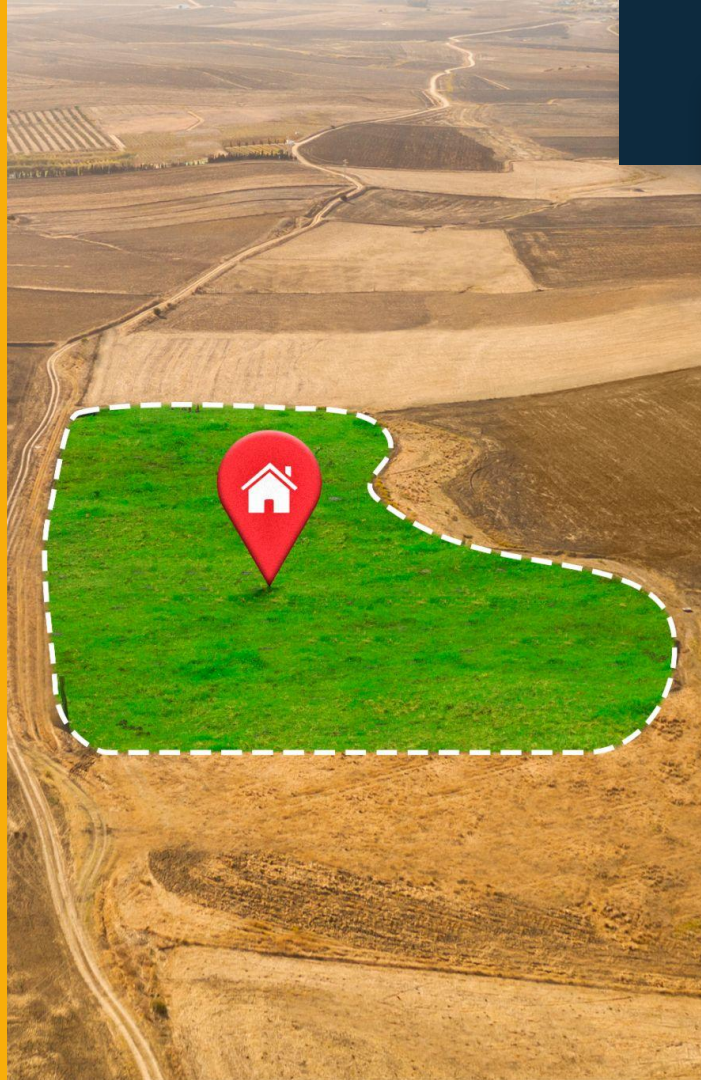
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01

Overview

Business Overview



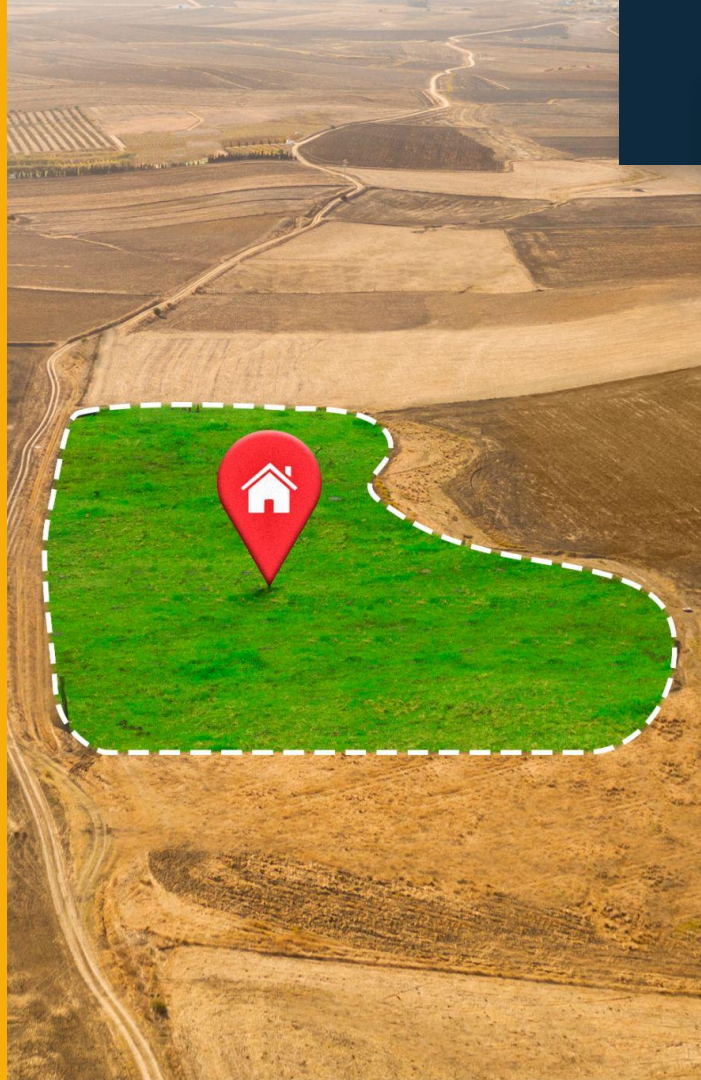
Problem

Since our company is expanding to a very robust aviation market, we need to make sure to invest in an aircraft that presents the lowest risk to our company.



Our idea

When looking at the commercial and private aspects of the aviation market, the major two factors that diminish risk are consumer safety and aircraft damage.



02

Data Understanding

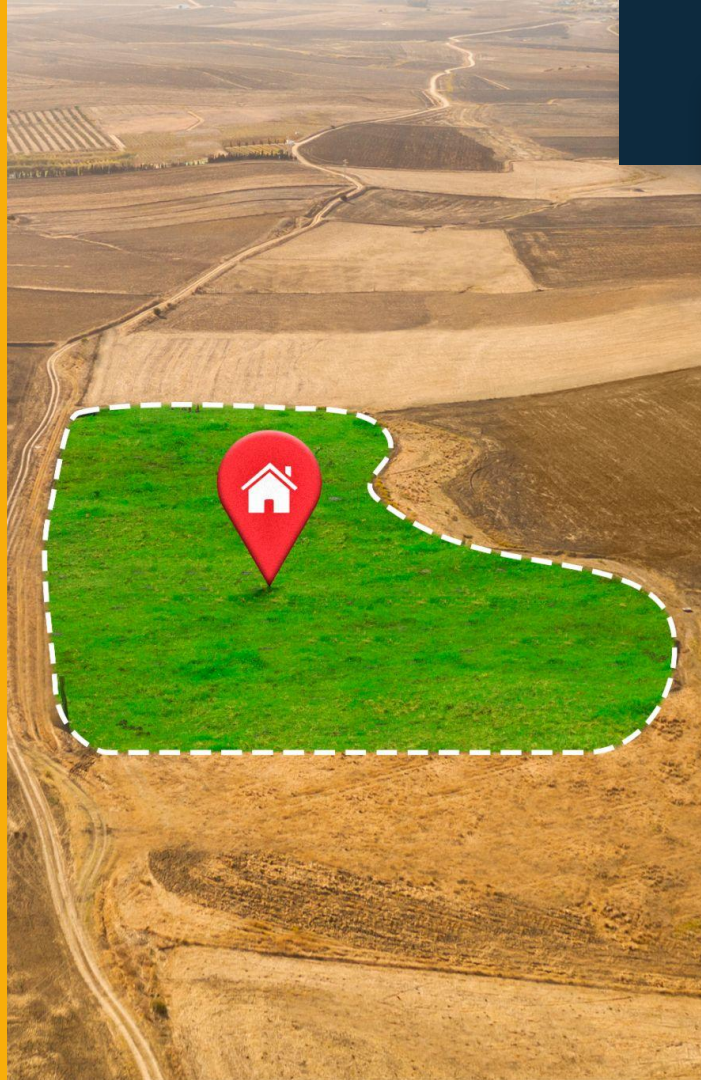
Data Understanding

Data

- Civil aviation accidents and selected incidents from 1962 - Present
- ~90,000 rows and 32 columns
- Cleaned dataset has 22 columns
- Total_Fatal_Injuries column was the most relevant variable
- Descriptive statistics

Technologies Used

- Pandas
- Matplotlib
- Add viz

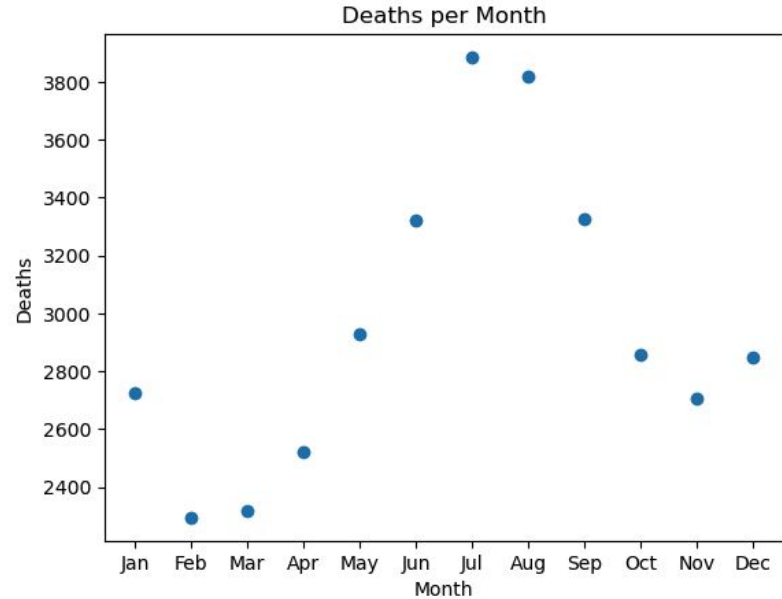


03

Data Analysis

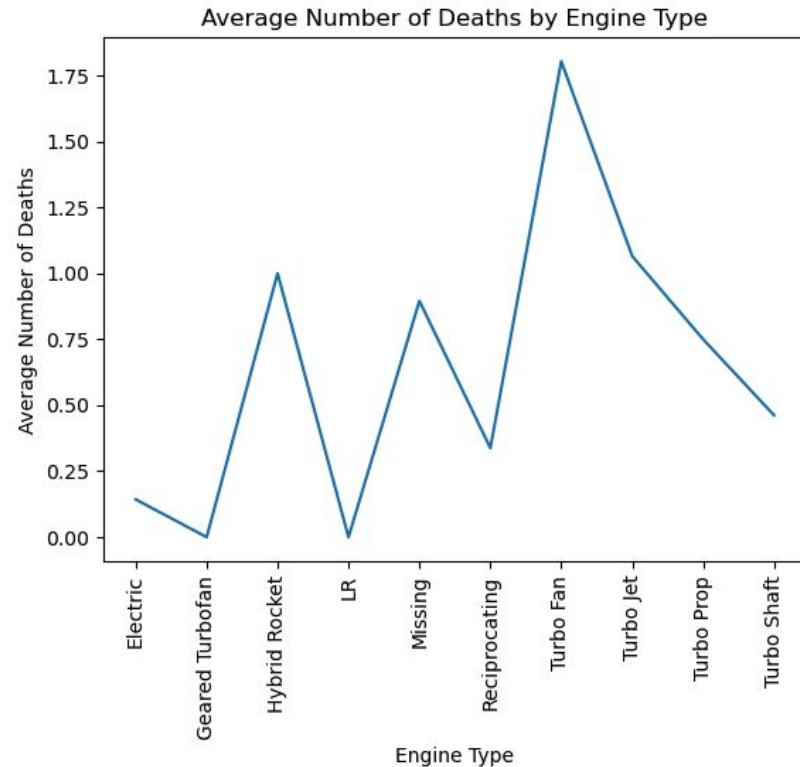
Results

- Deaths gradually increase and peak in July



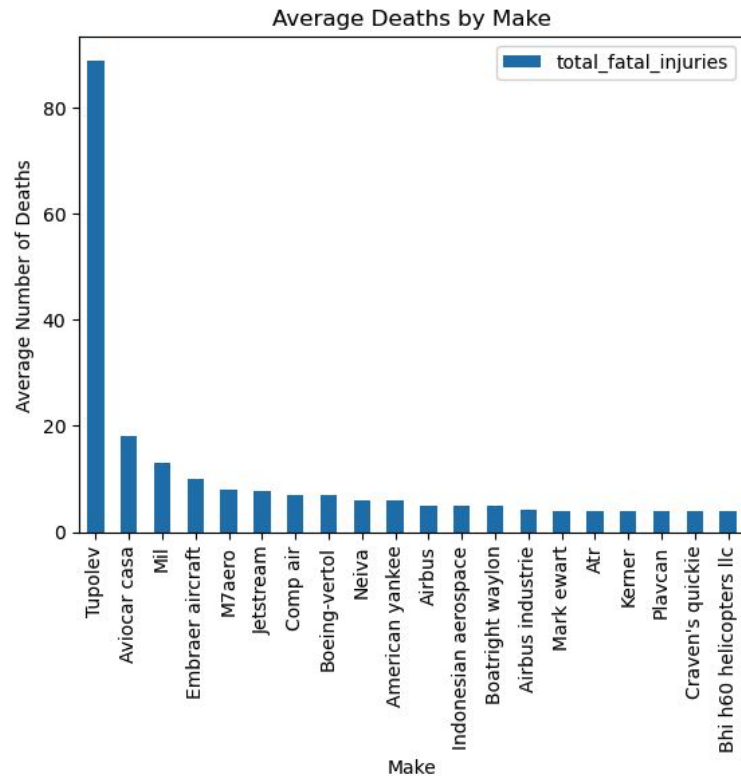
Results

- Turbo Fan engine causes the most deaths per accident
- The Reciprocating engine is the most common engine type



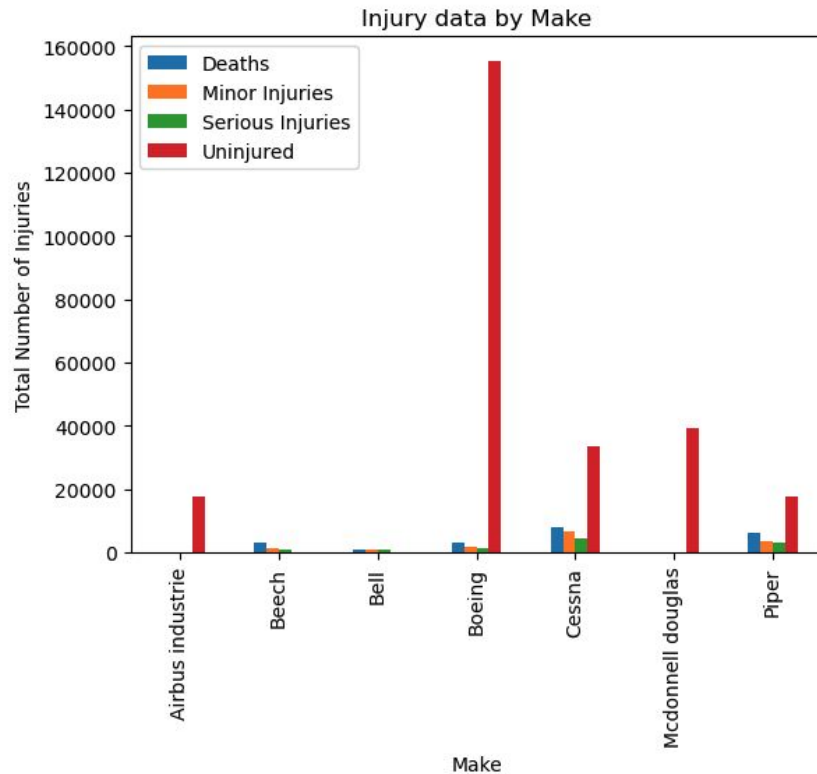
Results

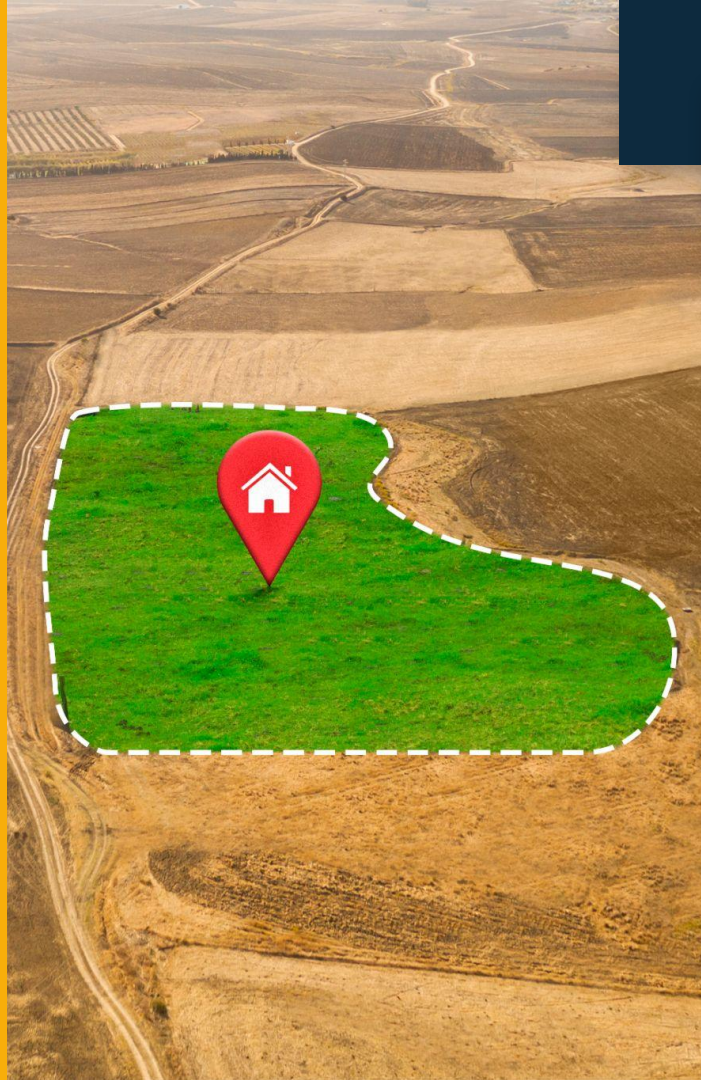
- High risk aircrafts
- Top 20 aircrafts for highest death rate per accident



Results

- Boeing aircraft has highest number of people who are uninjured by a significant margin
- Add title





04

Conclusion

Recommendations



Fly in the colder months of the year



Invest in aircrafts with the Reciprocating engine



Invest in a Boeing aircraft IF cost not an issue



Next Steps

- Purpose of Flight
- Event Date
- Less dispersed measures



Contact Info

Email

agat2377@gmail.com

LinkedIn

<https://www.linkedin.com/in/aashishgatamani/>

Github

<https://github.com/aashiish0>

Questions?

Thank You!