



HAZARD AND RISK ANALYSIS FOR AIRCRAFTS OPERATIONS

AVIATION DATA ANALYSIS



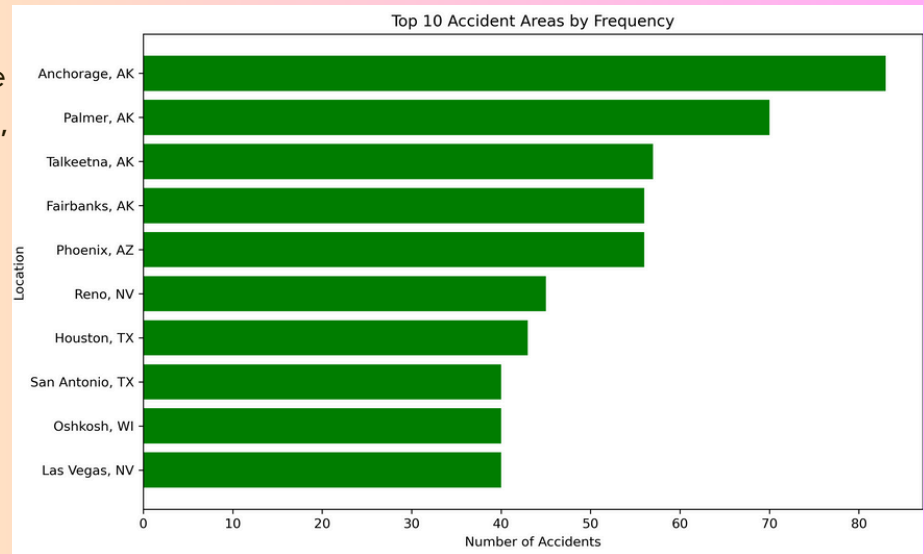
INTRODUCTION

The aviation industry is regularly subject to unpredictable market conditions and maintenance challenges. Understanding which conditions are essential for aircraft operation is key.

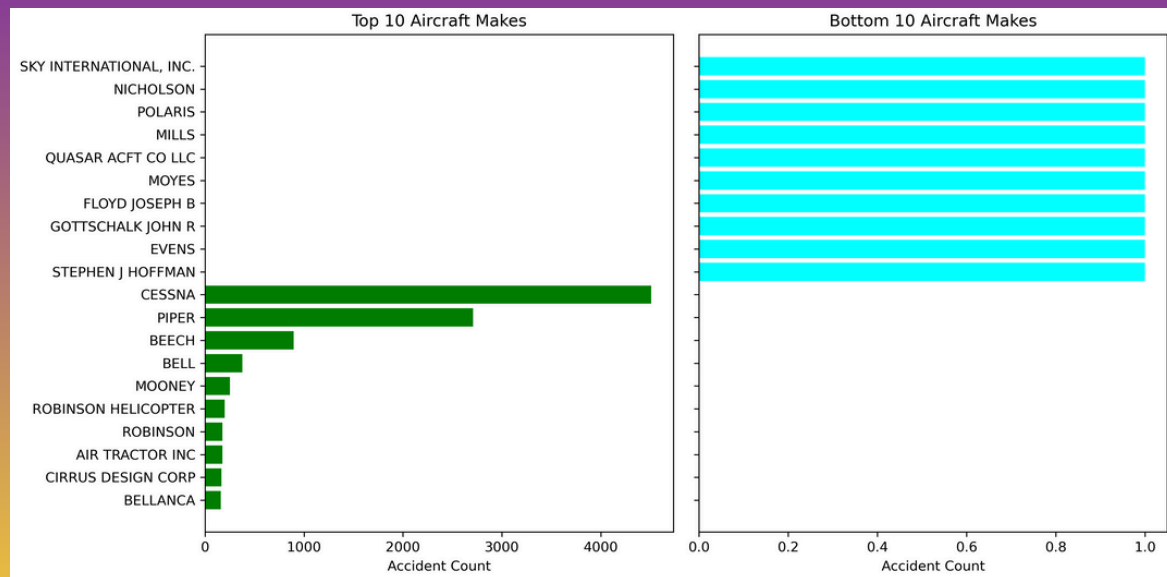
Top 10 Accidents areas by Frequency

Anchorage, AK recorded the highest number of accidents, followed closely by other Alaskan cities.

This indicates Alaska may face unique aviation risks compared to other states.



COMPARISON BETWEEN AIRCRAFT MAKES AND ACCIDENTS



Popular aircraft likes Cessna and Piper top the list while obscure ones experience the least accidents. The more the operations in these popular makes the higher the accident probability

Reccomendations

1. Consider purchasing aircraft like Robinson and Beech, which maintain a balance between popularity and safety.
2. Twin-engine planes are the best. Their prices are fairly reasonable, and the safety is top-notch.
3. Routes are a key consideration, so avoiding routes like Alaska, USA, might play a huge part in reducing risk.
4. UNK and electric engines might be a better choice. Avoid the reciprocating engine. ne
5. Now is the best time in history for a company that wants to invest in the aviation industry

Conclusion

Air travel has never been safer than it is now. With so many policies put forward and the high regard for human right, the air space has become very safe and convenient for travel.

Accidents are said to be part of nature. It is not in any person's capability to control that. However, calculated statistics help us minimise the likelihood of such to happen in the future.

We need to also sensitize our staff to adapt safety measures like checking for technical defects, system malfunctions and any other faults before takeoff.

They are also advised to maintain a high discipline.

With every accident that has happened, a safety measure has been implemented to avoid another loss of life for the same cause.

In conclusion, aviation industry is becoming safer and more profitable with time, and this business should consider investing in the industry

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