Confidential Customized for **Praveen Industries** Version 1.0

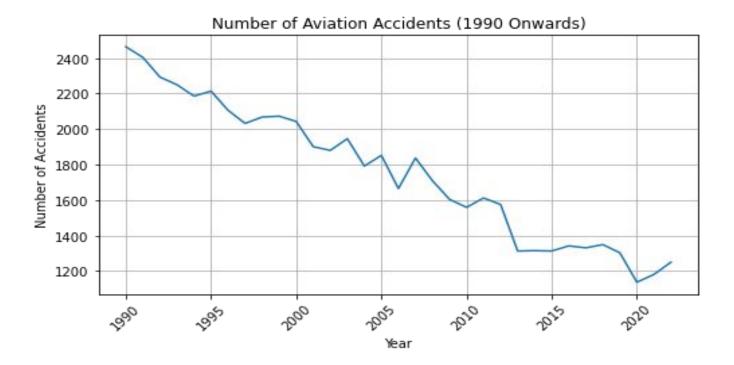
Expansion into the Aviation Industry



Overview

- Dataset from National Transportation Safety Board aviation accident database
- Focus on small (light and ultralight) aircraft
- Medium and large commercial aviation dominated by few big players
- Result of our analysis: 10 safest small airplanes

Dataset: https://www.kaggle.com/datasets/khsamaha/aviation-accident-database-synopses



Aviation accidents recorded by the NTSB over the years.

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Deaths per 100 million miles traveled:

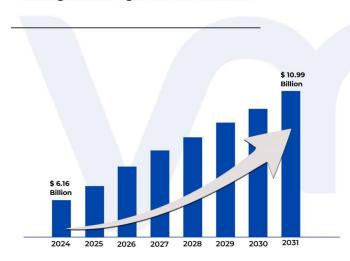
- Cars: 1.33
- Trains: 0.04
- Airplanes: 0.01

Market Trends

Demand for light and ultralight aircrafts is growing:

- Growing interest in recreational aviation
- Growing need for training aircraft
- Growing interest in UAM and personal air transportation
- Growing tourism industry







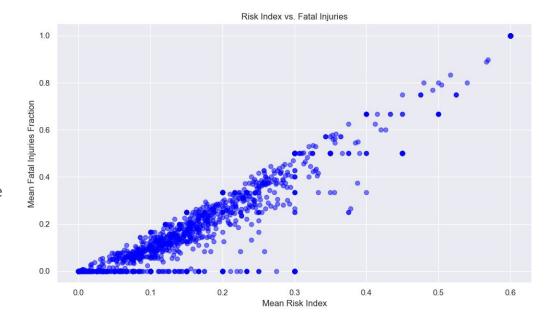
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Objective

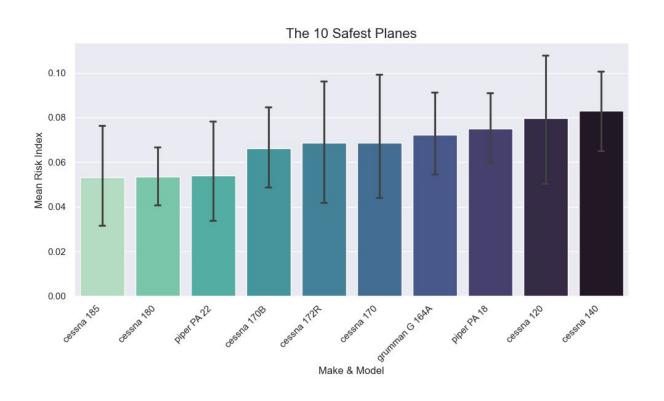
Determine the lowest risk airplanes for expansion into the aviation industry.

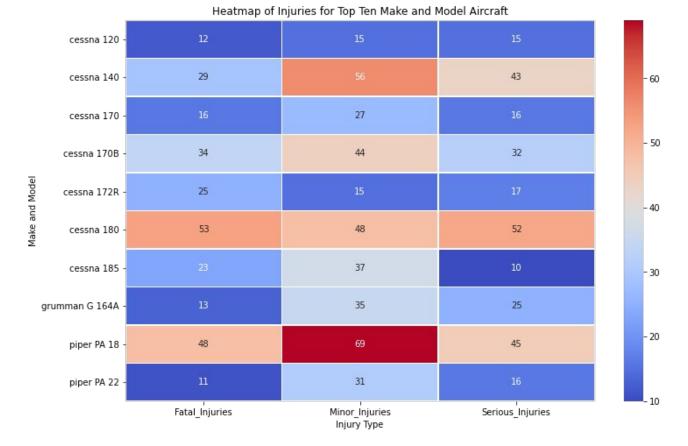
Methodology

- Risk index: a weighted sum of injury rates
- Only airplanes models that have more than 100 entries in the data
- Narrow the list down to the airplane models with the lowest mean risk index



Top 10 Safest Small Airplanes





The average values do not speak to real world measures of safety - Piper PA 18 fatal injuries vs the minjor injuries

Proposed solution

We propose we should look at how the cost of buying these planes would justify the risk associated with each plane and their respective risk indexes.

Thank you.



Team

Just a humble duo of data guys.









Target audience

Praveen, business executive who gets confused by too much data.

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