Aviation Risk Project

Identifying low risk aircraft brands

Overview

Objective: Analyze aviation accident data to identify low-risk aircraft for acquisition.

Data Source: Kaggle National Transportation Safety Board (1962-2023).

Benefit: Guide strategic decisions to enhance safety and minimize risks.

Business problem

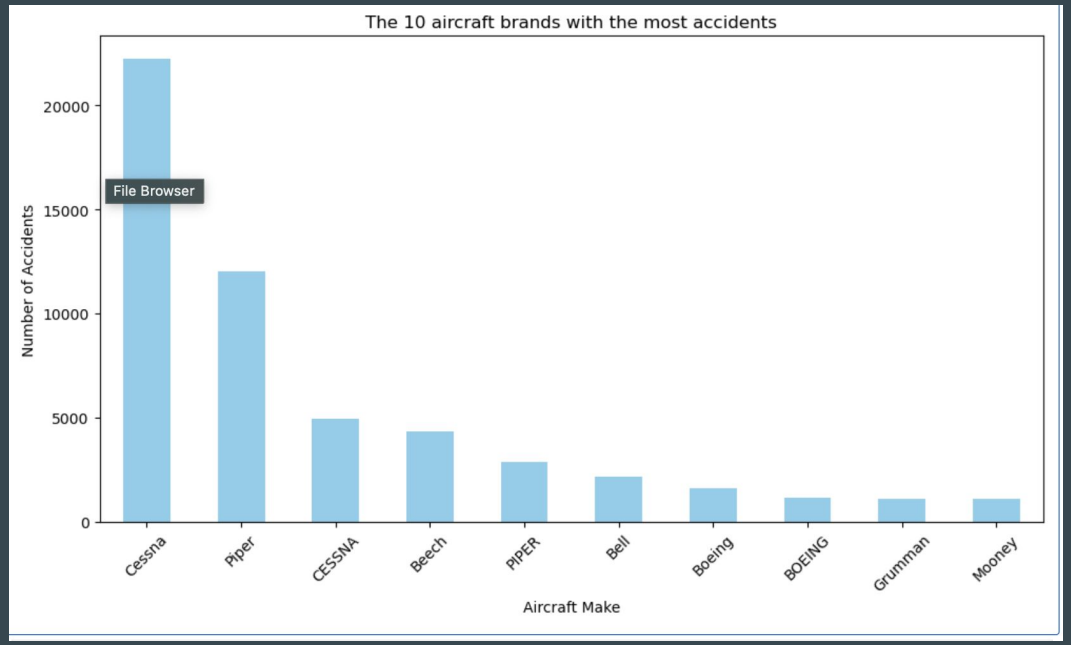
The challenge is to entering the aviation industry with minimal risk. Identify aircraft models with lower accident rates to inform procurement.

Data & Methods

This bar chart shows the number of accidents by aircraft make.

It helps identify which manufacturers have a higher incidence rate in this example we have the top 10 with the most accidents.

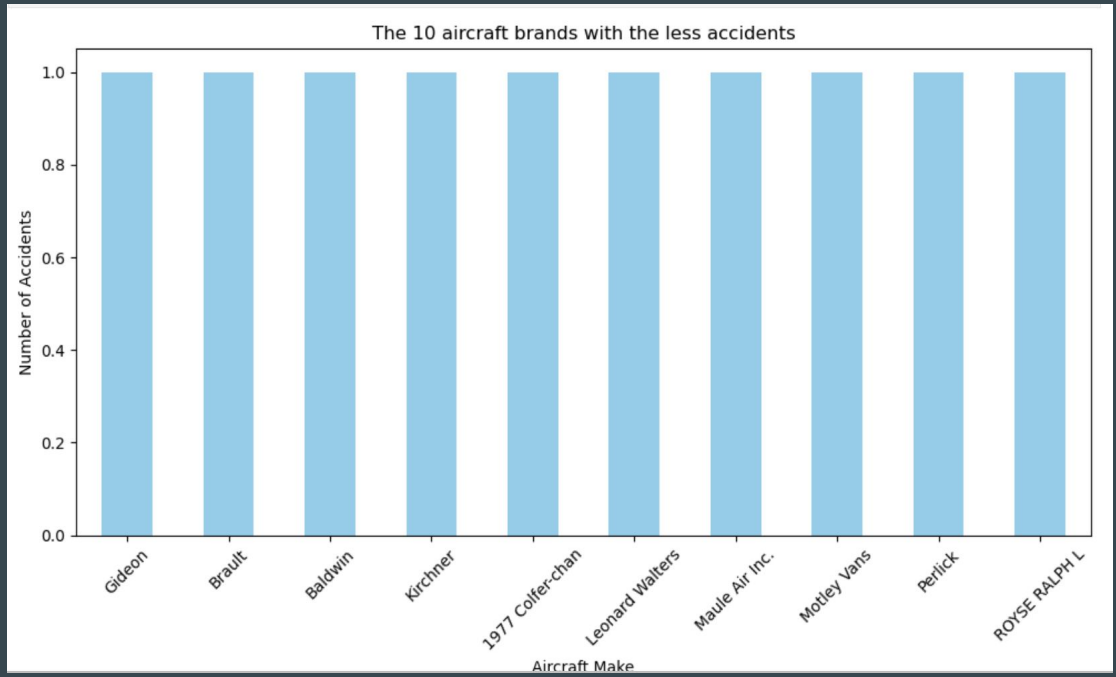
Focus on acquiring models with the fewest accidents for reduced risk.



This bar chart shows the number of accidents by aircraft make.

It helps identify which manufacturers have a higher incidence rate.

Focus on acquiring models with the fewest accidents for reduced risk.



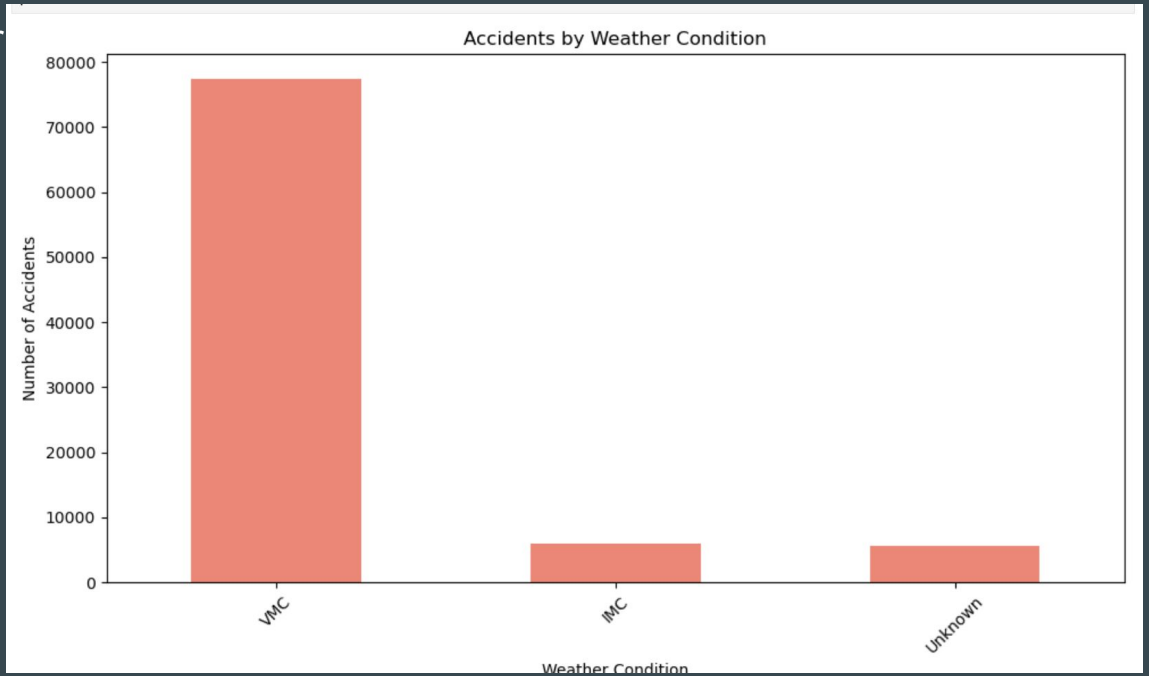
Impact of Weather on Accidents

This chart illustrates accidents under different weather conditions.

VMC and IMC are highlighted to understand risks during visual and instrument meteorological conditions.

VMC : *Visual Meteorological Conditions*

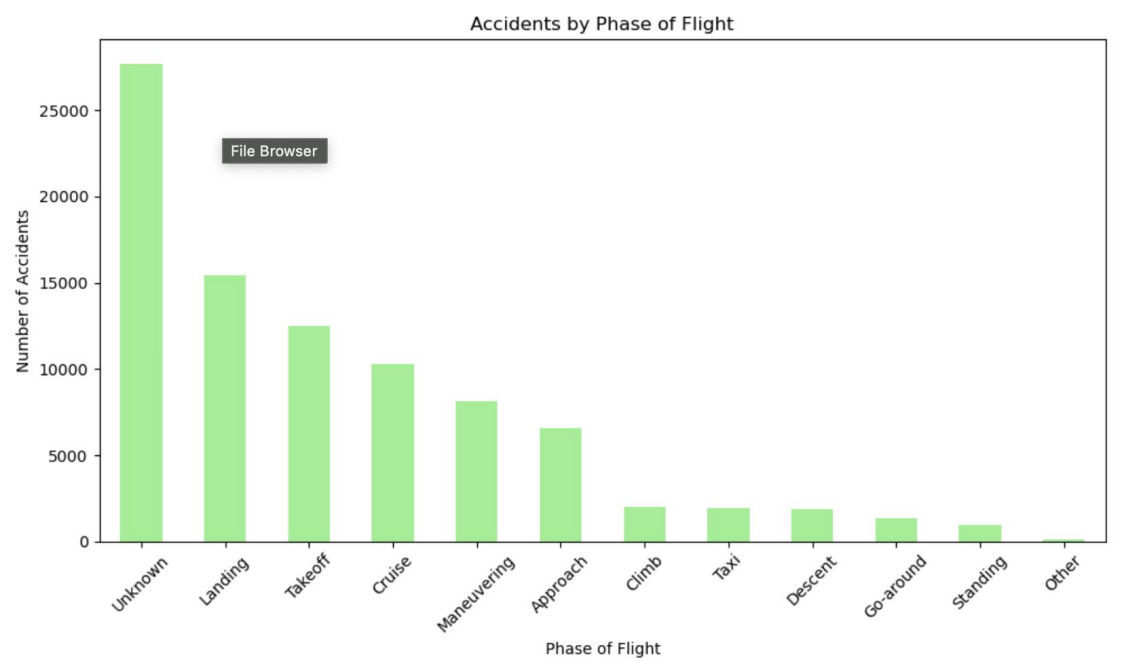
IMC : *Instrument Meteorological Conditions*



Impact of Phase of Flight

The bar chart displays accidents across various flight phases.

Identifies high-risk phases such as takeoff and landing.



Thank you!

Email: jeudydavidpro@gmail.com
Github: https://github.com/JeudyDavid