

Risk Evaluation on the best aircraft make to consider.

Based on the accidents, the analysis should be to ascertain the best model considering the risks involved.

Summary

Following critical analysis from the given dataset, my company would wish to recommend for the purchase of the make Cessna to our client because it was proven to be favourable in terms of number of engines and following the different weather conditons.

Analysis also showed that aircrafts associated with personal use posed the lowest risk therefore more economical to the client.

Outline

- Business Problem
- Data
- Methods
- Results
- Conclusions

Business Problem

- Your company is expanding in to new industries to diversify its portfolio. Specifically, they are interested in purchasing and operating airplanes for commercial and private enterprises, but do not know anything about the potential risks of aircraft. You are charged with determining which aircraft are the lowest risk for the company to start this new business endeavor. You must then translate your findings into actionable insights that the head of the new aviation division can use to help decide which aircraft to purchase.

Data

Based on the findings , it was relevant to choose the most relevant factors when making decisions such as number of fatal injuries,serious injuries, minor injuries, uninjured,weather conditions and purpose of flight.

Some factors also posed to be irrelevant such publication date,event ID, air carrier,aircraft category,longitude, latitude ,airport name among other factors.

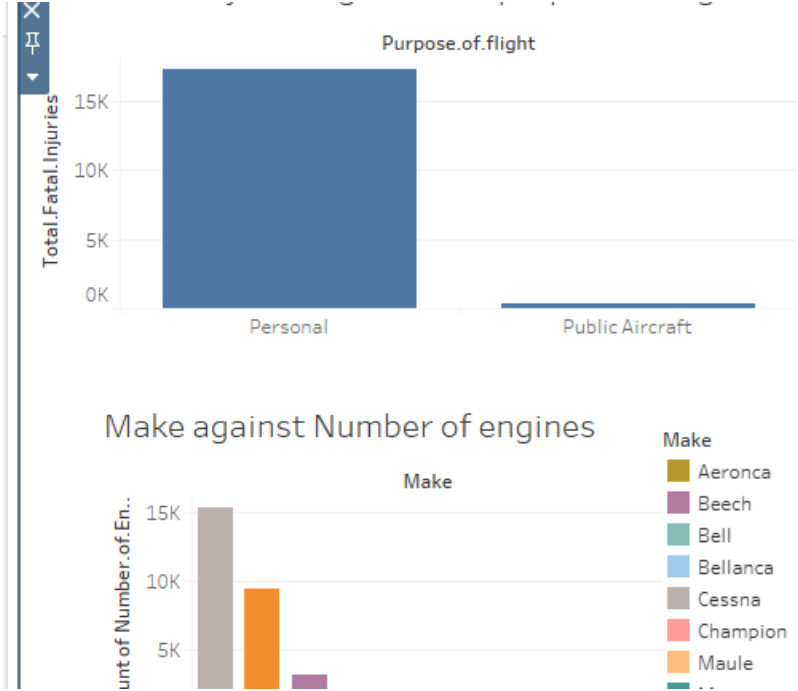
This ensured we could analyze data that was free from missing values.

Methods

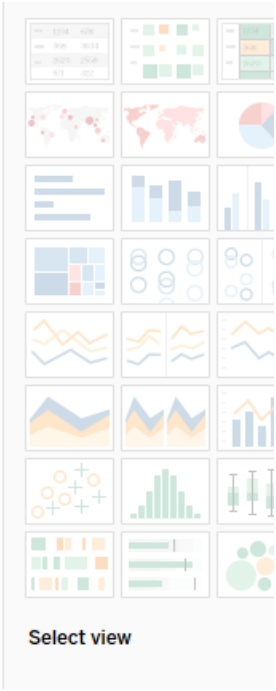
Describe the methods you used here. Can include data preparation, analysis, and/or modeling

From the data set given it was import to use pandas to analyze the large data series and methods such as dropna and isna to remove the missing values. There was also need to calculate the mean to be able to work with the average for better findings.

Results



Weather condition against country



Conclusions

Business Recommendations

Based on the analysis , it is important to consider a broad range of factors to make wise decisions concerning the purchase of airplanes. Compare each factor against each other factor for better judgement.

Project Limitation

It's vital to compare how factors relate with each other and give comprehensive insights.

Future insights

From my analysis , I would consider the make Cessna to my client for use of

Thank You!

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