

AIRCRAFT RISK ANALYSIS PRESENTATION

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SUMMARY

- I'm working on this project for my company. They're thinking about getting into the aviation business, like buying planes for commercial and private use. But they don't know much about the risks, like which planes have the most accidents or are the safest. My job is to look at this data from the National Transportation Safety Board and figure out which aircraft have the lowest risk.

OUTLINE

- Business Problem
- Data
- Methods
- Results
- Conclusion

BUSINESS PROBLEM

- My goal is to figure out which aircraft are the safest for the company to buy. I am looking at accident data to find the lowest risk options.

DATA

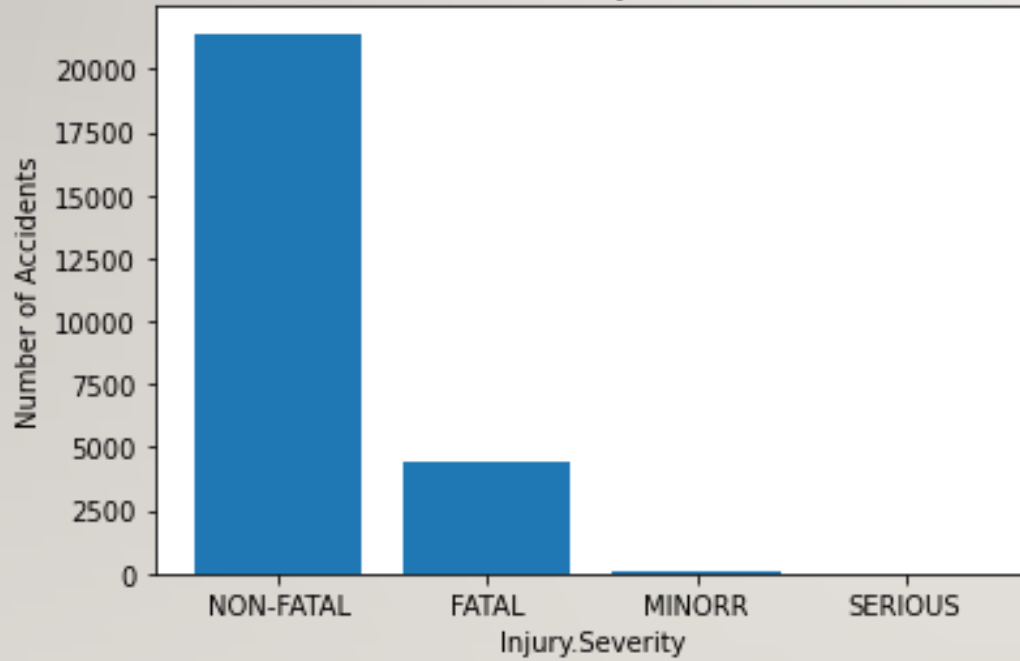
- I loaded the required dataset which was **Aviation.Data_csv**.
- I cleaned the dataset for easier analysis

METHODS

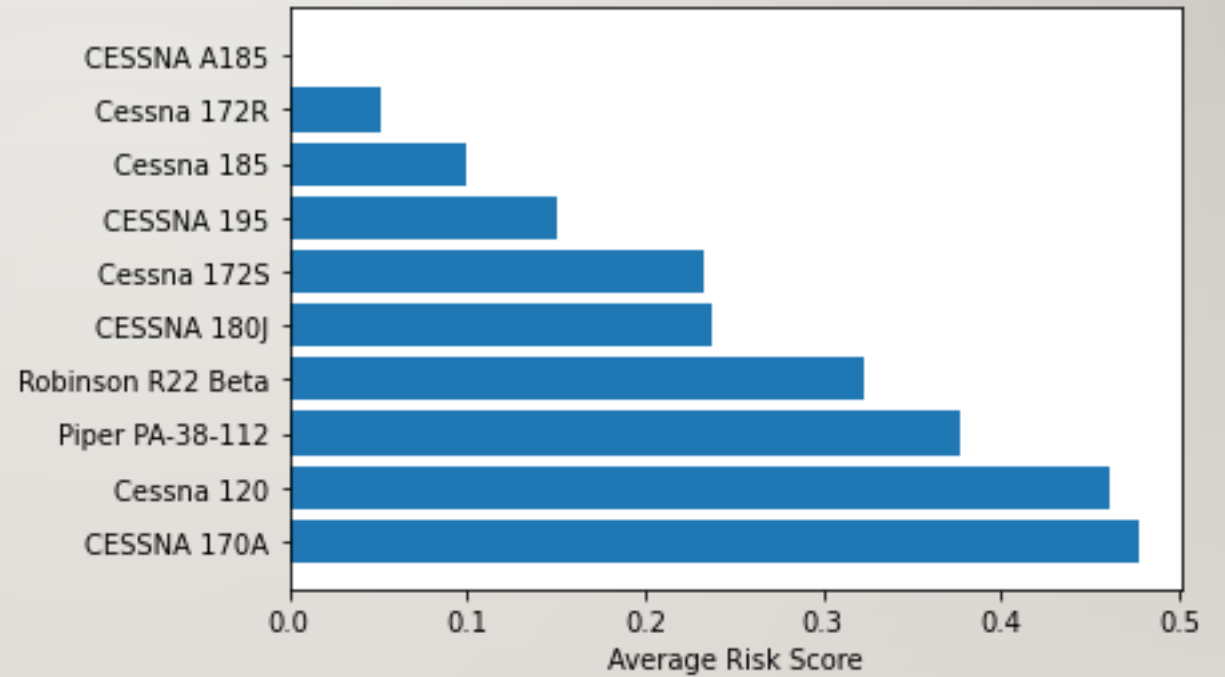
- I used two methods to analyze the cleaned dataset:
 1. Descriptive analysis
 2. Visual analysis

RESULTS

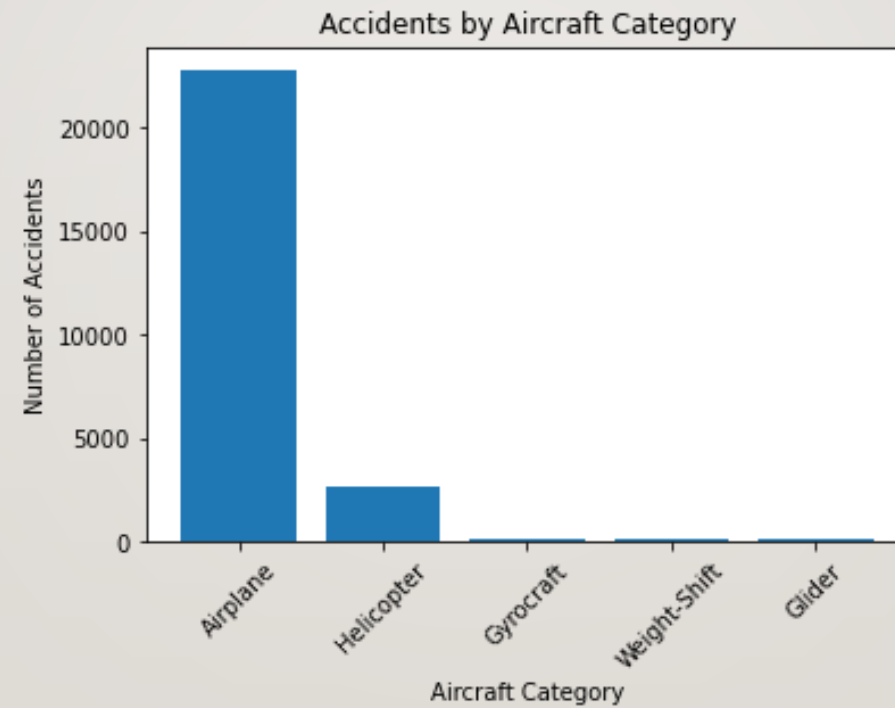
Accident Severity Distribution



Lowest-Risk Aircraft Models



RESULTS



CONCLUSION

- After all the results I can advice the company to:
 1. Prioritize aircraft and operations with low fatality exposure
 2. Prioritize the top-ranked aircraft for initial purchase
 3. Avoid Aircraft with High Severity-to-Accident Ratios

Thank you !

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