

Executive Aircraft for Corporate Use

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Summary

- Organization's need for executive aircraft
- Analyzed aviation accident data set
- Filtered search and narrowed down to three models
- Research limitations

Outline

- Business Problem
- Data
- Methods
- Results
- Conclusions

Business Problem

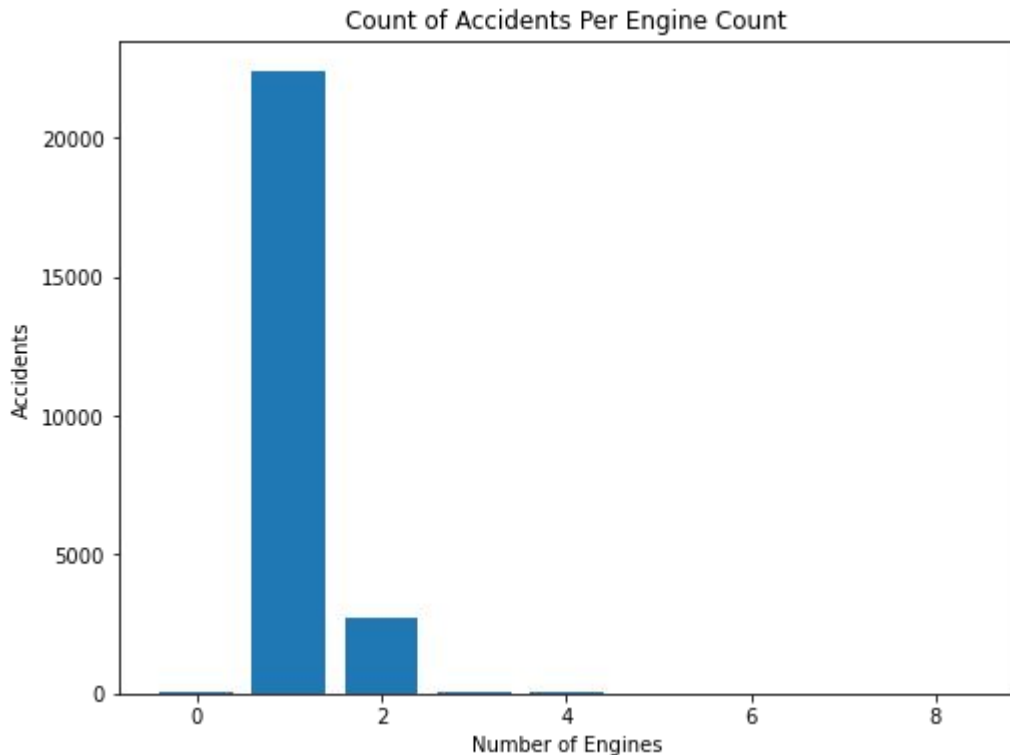
- Purchase aircraft to:
 - Transport C-Suite/VIPs
 - Impress company clients
- Challenge - find aircraft that can:
 - Meet goals
 - Provide optimal degree of safety

Data

- Aviation accident data from 1962 to 2023
- Data from National Transportation Safety Board
- Contained 90,348 rows of accident data
- Limited focus of dataset

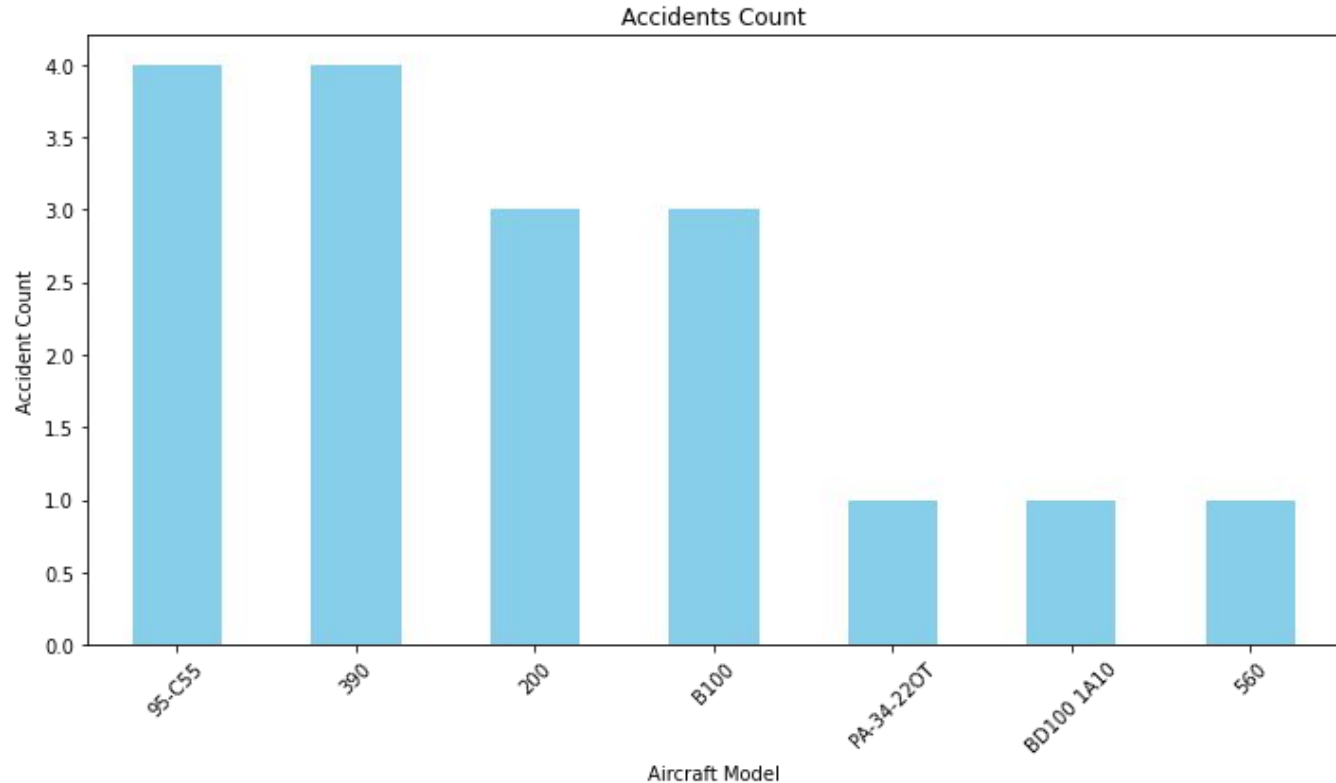
Data Preparation

- Filtered unnecessary and missing data
- No single engine or amateur built aircraft
- Business and Corporate use aircraft only
- Two datasets to focus on airplanes and helicopters



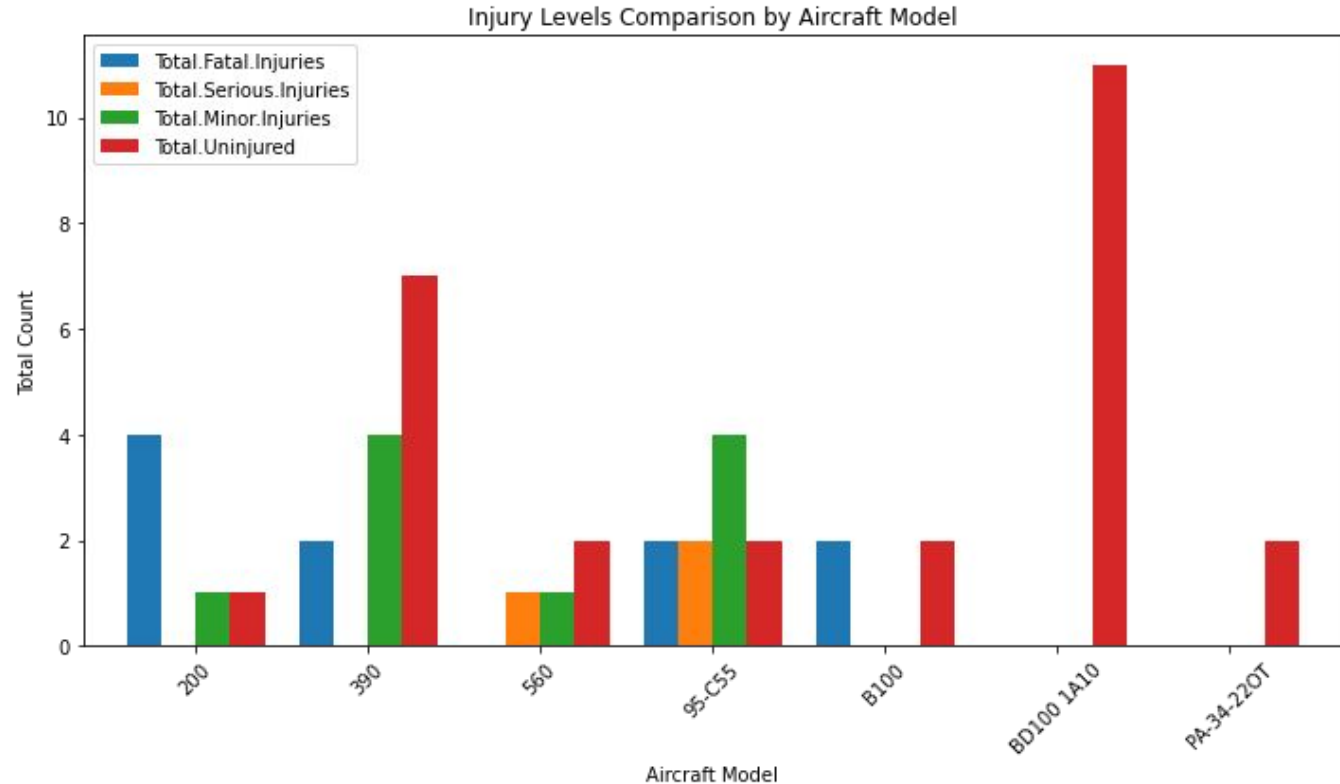
Data Analysis

- Sorted by degrees of severity and manufacturers
- Compared models with lowest minor accident rate



Data Analysis Cont'd.

- Compared injury severity
- Models on right had high survivability



Results

- Cessna 560
- Bombardier BD100 1A10
- Sikorsky S-76A

Conclusions

- Recommend small or medium sized jet
- Corporate helicopter as alternative
- Dataset limited to accidents only, didn't include other safety parameters/stats
- Recommend next evaluation expands scope of research

Thank You!

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