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Aircraft Risk Analysis

Summary

- After examining the aviation accident dataset, three airplane options emerged as minimizing risk entry into the aviation practice
 - Piper PA-18-150
 - Cessna 180
 - Cessna 172P

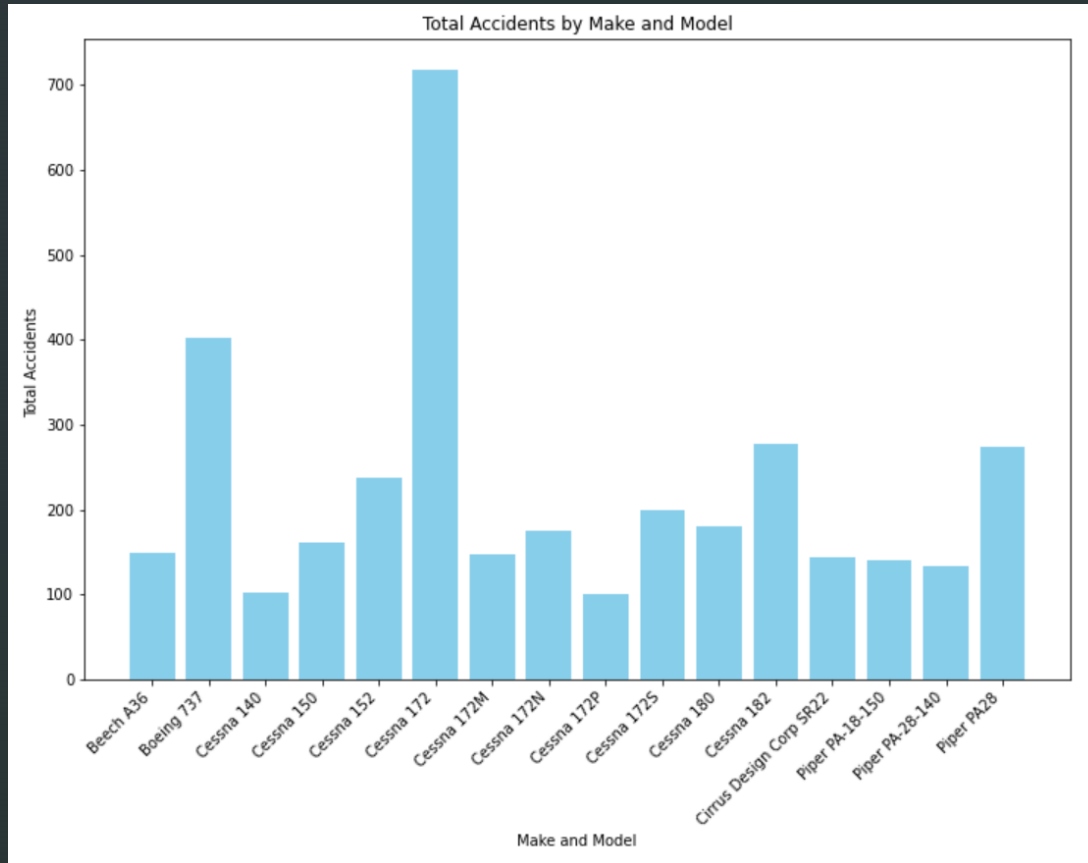


Business Problem



- New venture in aviation
- Assess risk of aircrafts
- Informed decisions for success

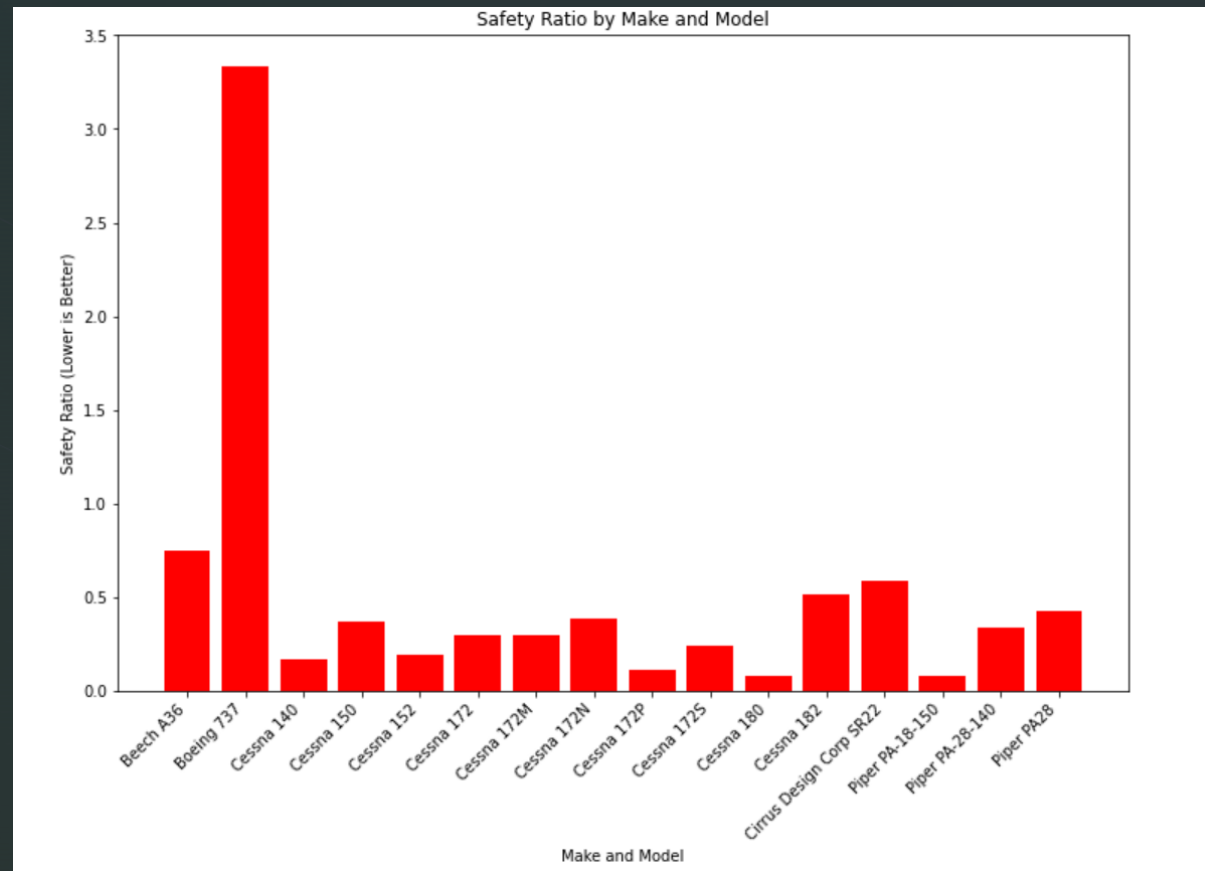
Data



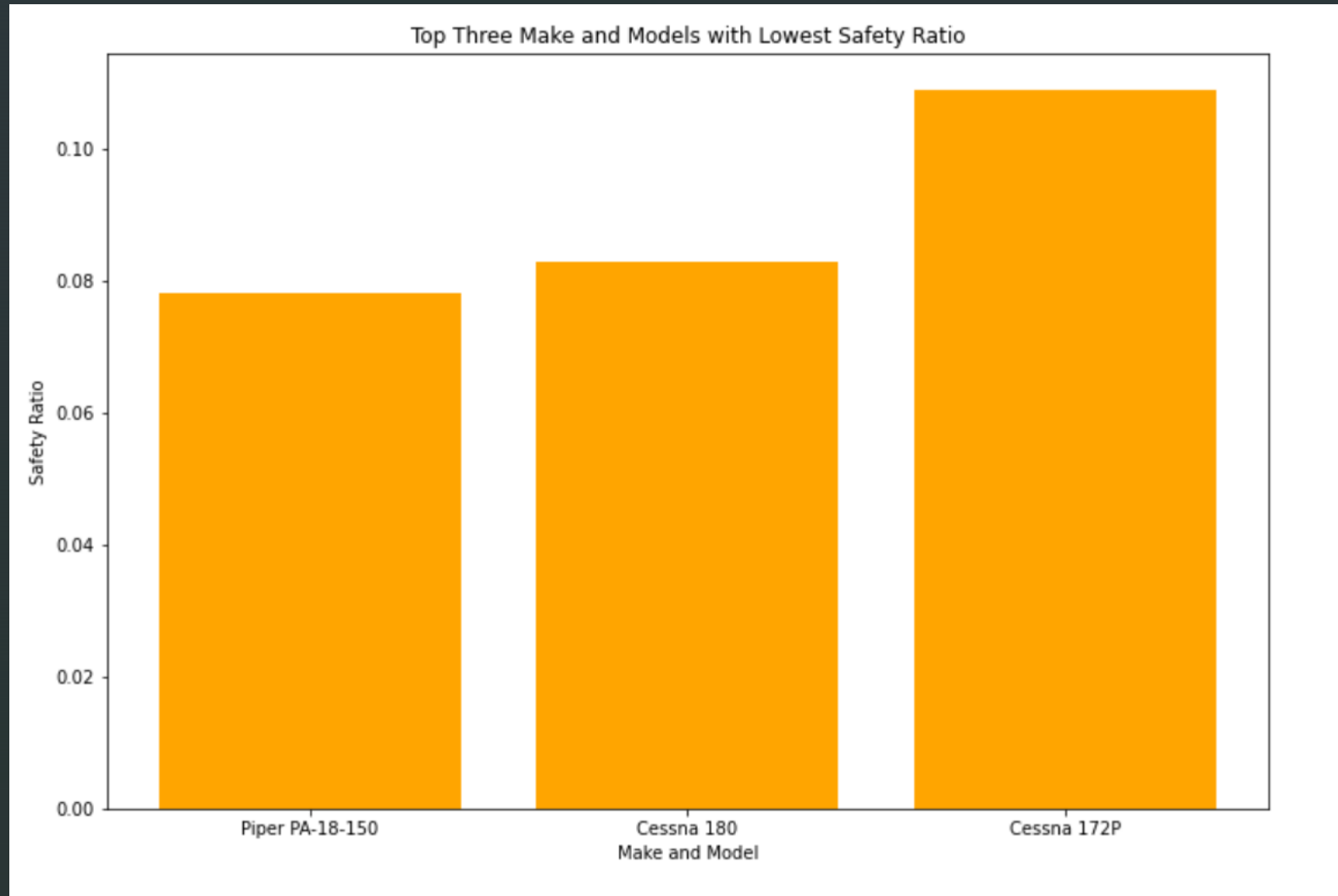
- Aviation accident data from 1962 to 2023
- Data includes Makes, Models, and Count of Injuries

Results

- Total Accidents
- Total Fatal Injuries
- Safety Ratio



Results



Conclusion

- Examination of total fatal Injuries per Make and Model highlights these three airplanes with the lowest investment risk.
- Piper PA-18-150
- Cessna 180
- Cessna 172P

Next Steps

- Assess other factors such weather or geographical impact
- Assess modern safety practices such as maintenance