



Enterprise Risk Analysis

Exploring the Aircraft Leasing Industry



Recommendations

1. Commercial over private
2. Instructional businesses
3. Airbus A350 and A220

Overview



01

Business Problem

02

Data & Methods

03

Results

04

Conclusions

05

Next Steps

01

Business Problem

- Interested in purchasing and operating airplanes
- No knowledge about potential risks:
 - Loss, damage to aircraft
 - Liability issues
- Help determine which airplane to purchase



02

Methods & Data

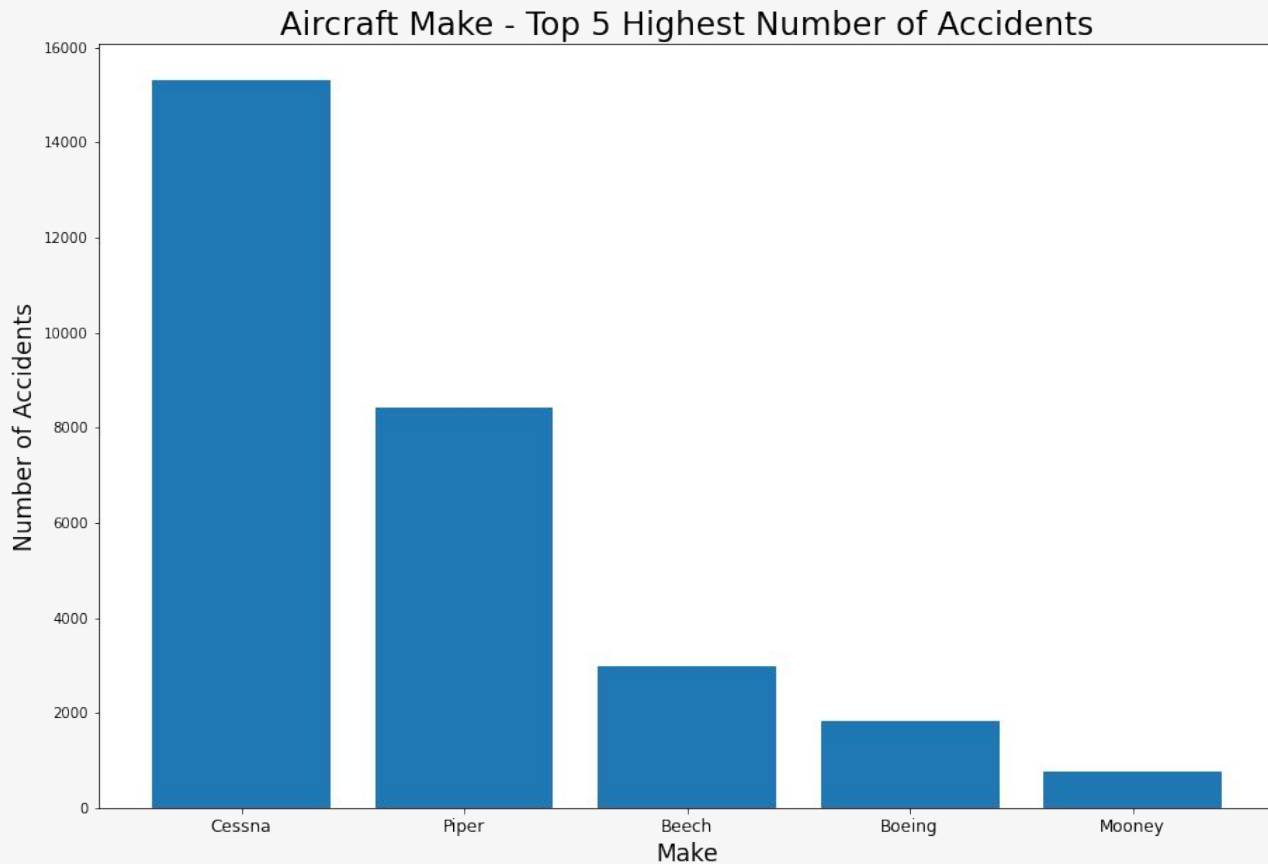
- National Transportation Safety Board
- Accidents in US and Intl. waters from 1962 to 2022
- Each entry recorded with unique ID



Results



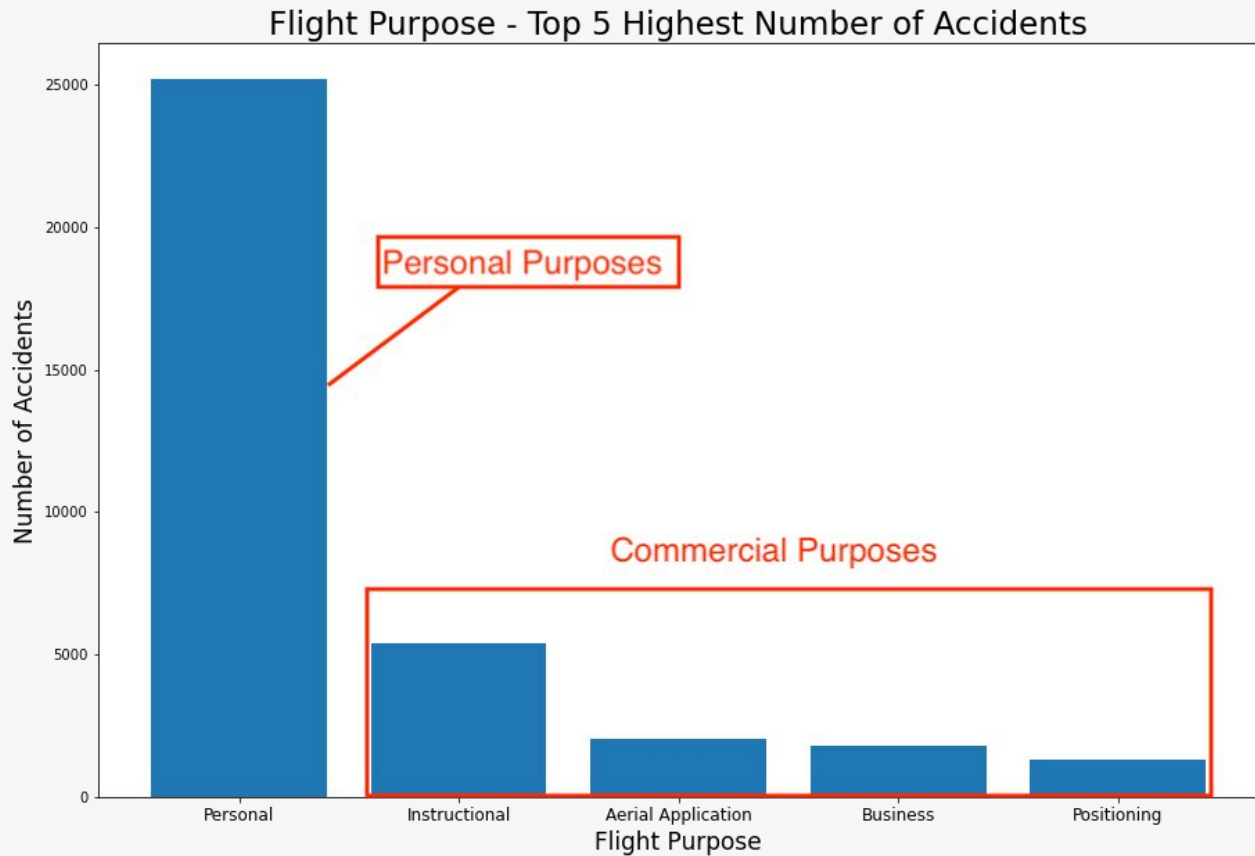
- Small aircraft make up most of the incidences



Results



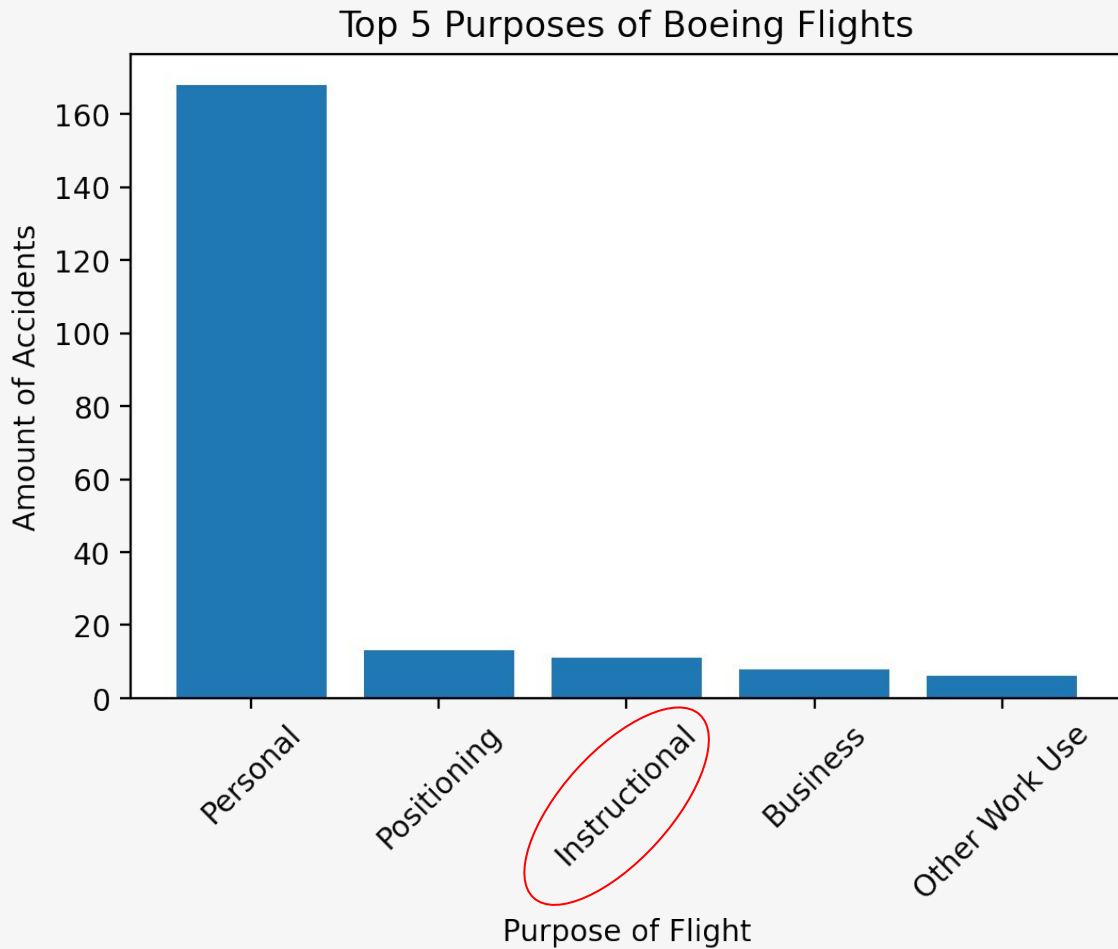
- Flights for personal purposes are the riskiest



Results



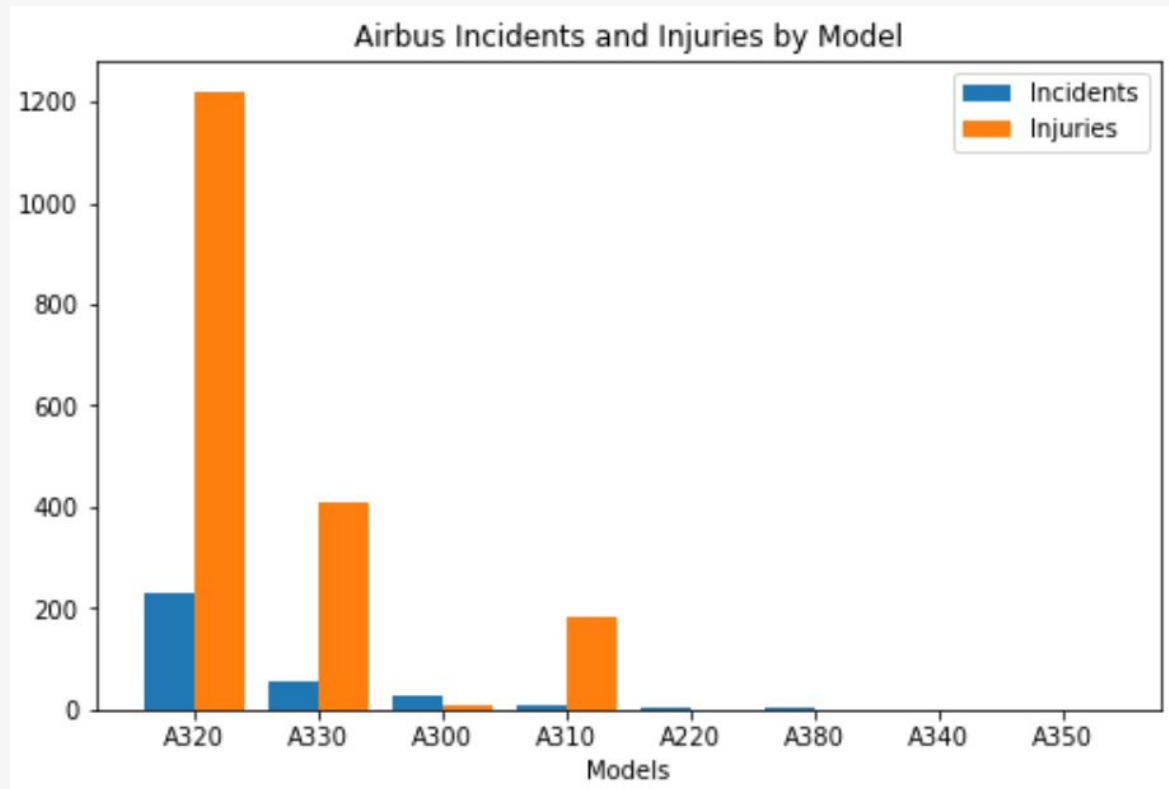
- Incidents are not common in instructional flights using larger aircraft



Results



- Airbus aircraft have been involved in fewer accidents in the past 30 years





Conclusions

1. Stick to commercial operations
2. Instructional business endeavors are safe
3. Purchase A350 and A220

Next Steps

1

Automated Data
Cleaning Methods

2

Aircraft Mileage Data

3

Investigate Aircraft
Maintenance Cost



Thank You



Bobby Gerberick

robertgerberick@gmail.com

[Github](#)

[Linkedin](#)

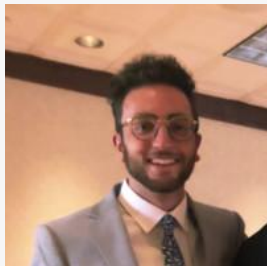


Claire Sarraille

clairesarraille@outlook.com

github.com/clairesarraille

linkedin.com/in/claire-sarraille



Ben Gilbert

Email: 42bengilbert42@gmail.com

[Github](#)

[LinkedIn](#)