# Airplane Safety Review

NTSB Accident Database

## Safety Review of Aircraft

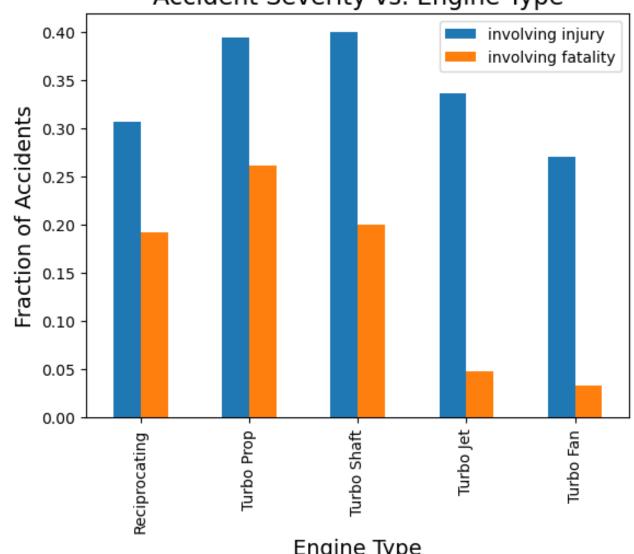
- Defining Safety of an Airplane:
  - Frequency of accidents
  - Severity of accident (serious injury or fatality)
- Airplane features to consider:
  - Engine type
  - Airplane type
  - Boeing vs. Airbus

## Safety Review of Aircraft

- Three questions:
  - Does the type of engine on an aircraft affect the severity of accident?
  - Does the type of aircraft affect the severity of accident?
  - Do **Boeing** or **Airbus** planes get in more accidents?

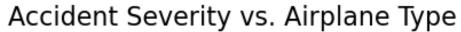
## Type of Engine

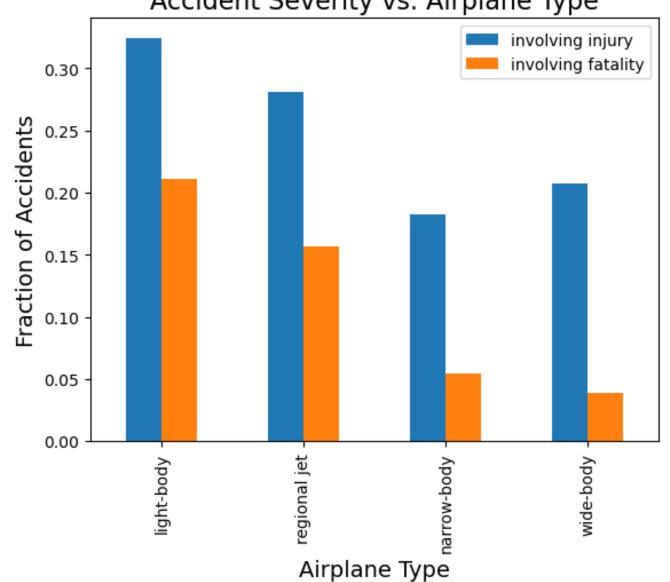




 Turbo Jet and Turbo Fan airplanes: less likely accident will involve a fatality

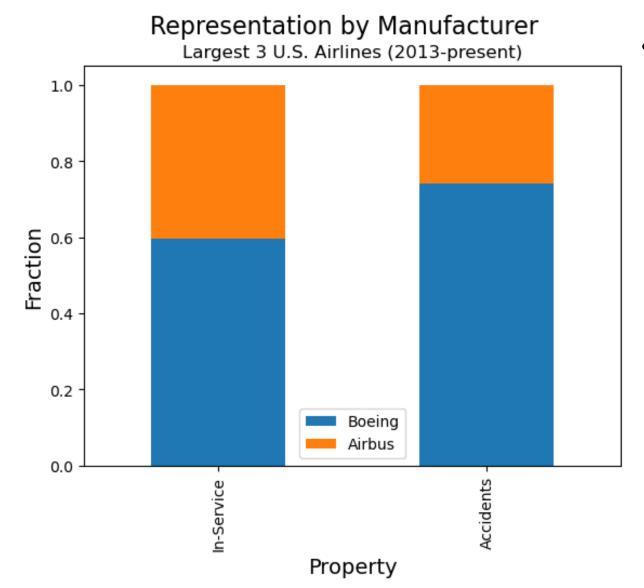
## Type of Airplane





 Narrow-Body and Wide-Body aircraft: less likely an accident will involve an injury or fatality.

#### Make



 Boeing airplanes are slightly overrepresented in the number of accidents.

#### Conclusions

- These features can help to minimize the safety risk of an airplane:
  - Engine Type: Turbo Jet or Turbo Fan
  - Airplane Type: Narrow-Body or Wide-Body
  - Make: Airbus

#### Next Steps

- Control for different numbers of planes in field
- Determine if differences are statistically significant
- Account for accident causes

## Questions?