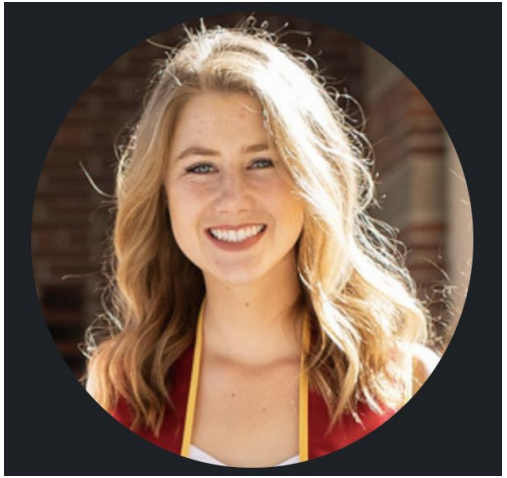
Airline Risk Analysis

June 2, 2023

Team

Lillian Lakes
Technical Lead



Madeleine Smithers
GitHub Lead

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Presentation Lead

Main Finding

A commercial airline passenger is 75.69% less likely to die in a deadly crash.

Agenda

1. Business Problem
2. Data Overview
3. Data Analysis
4. Recommendations
5. Further Steps

Business Problem

Business Problem

- Expand into Aviation Industries
- Understand the Risk of Commercial and Private Aviation

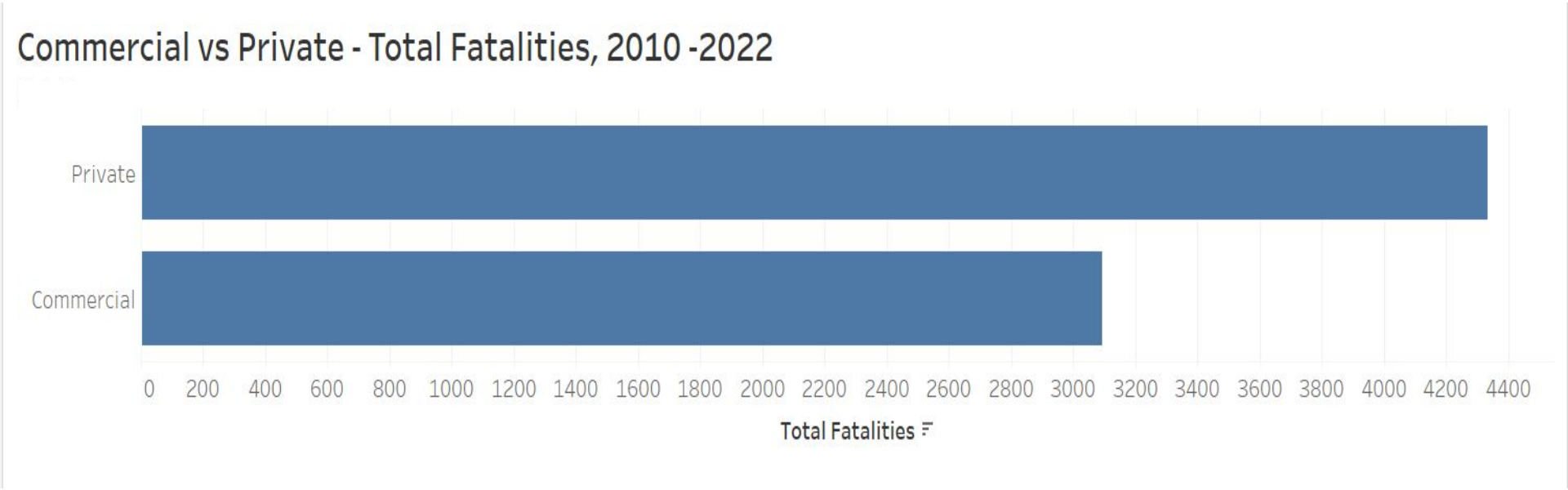
Data Overview

Data Overview

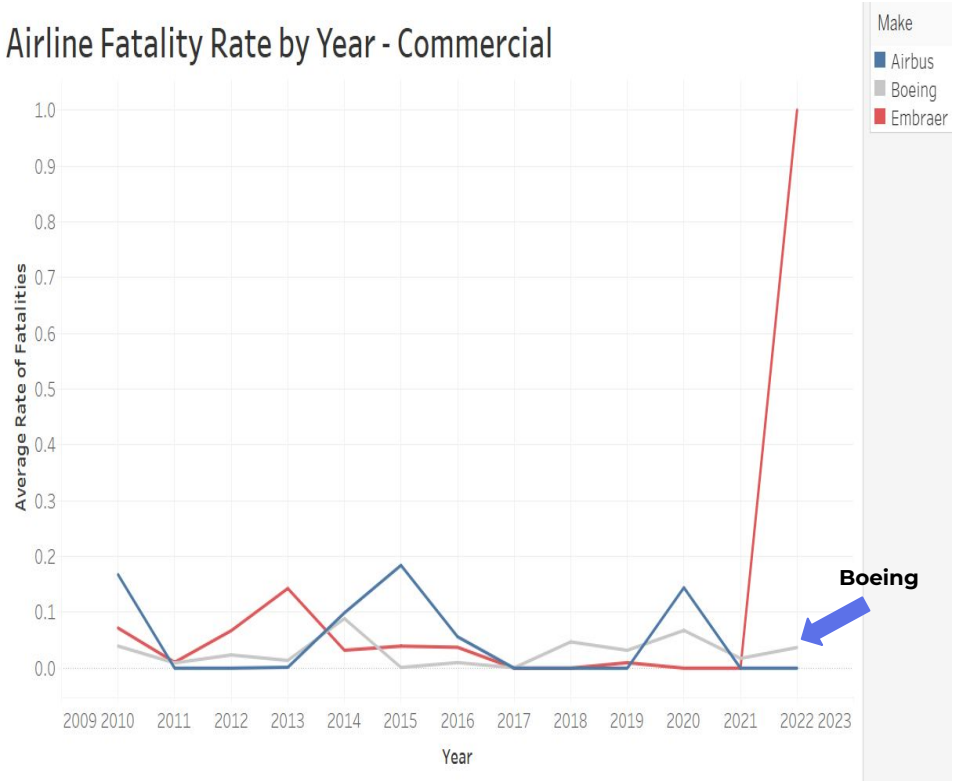
- Aviation Data from National Transportation Safety Board
- Data from 1962 - 2022 (88000+ data points)
- Filtered by airline accidents after 2009

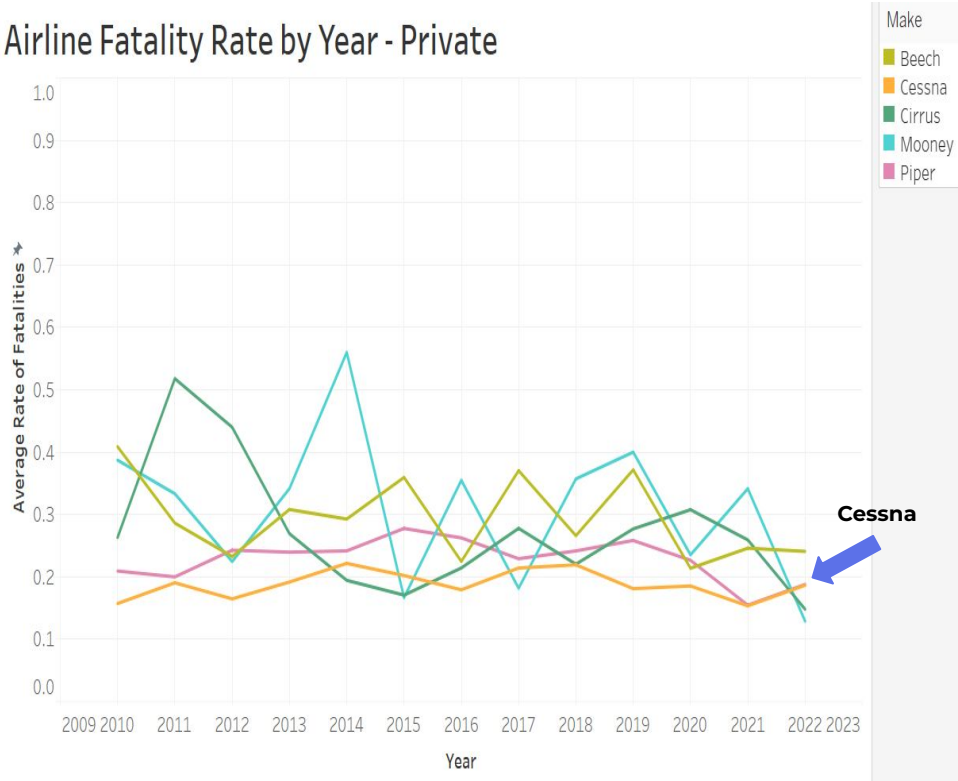
Data Analysis

Private Airlines Reported More Fatalities

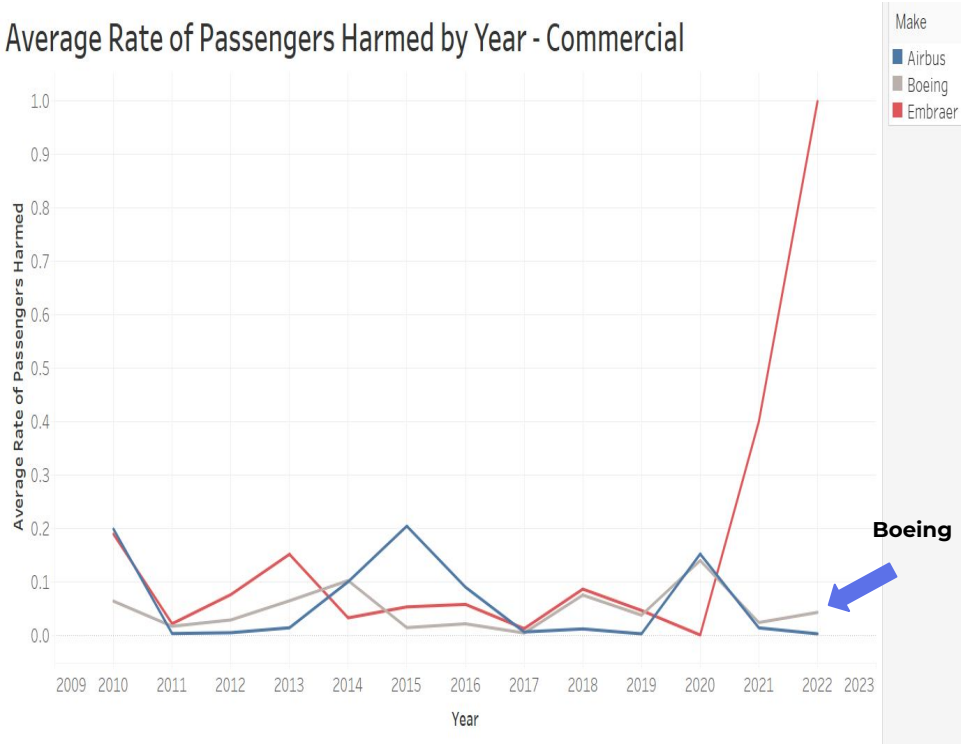


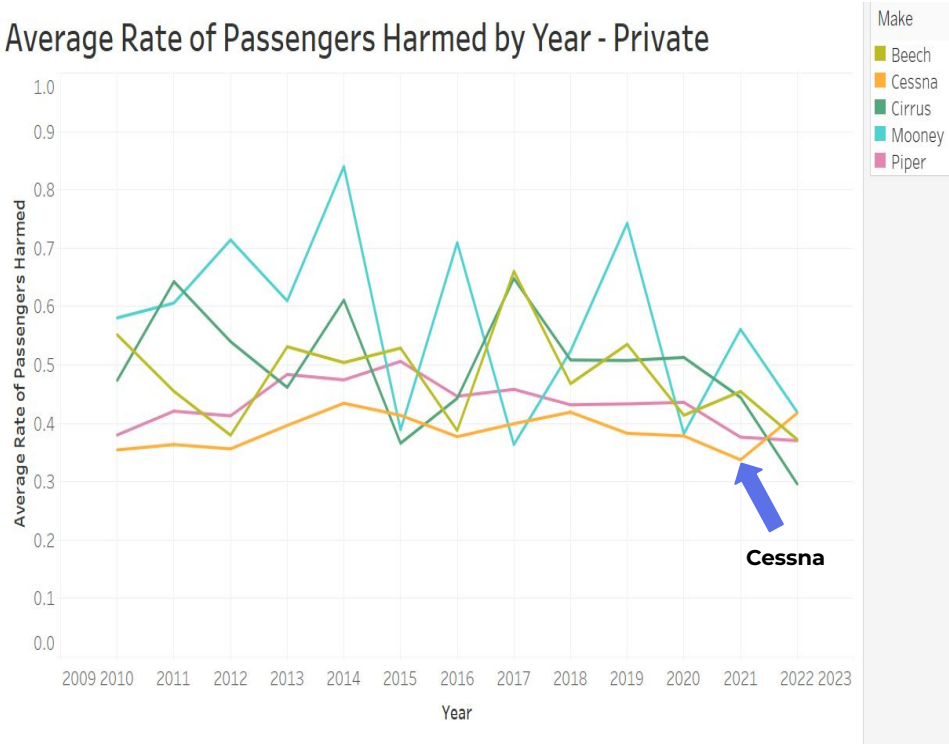
Fatality Rates are Lower in Commercial Airlines



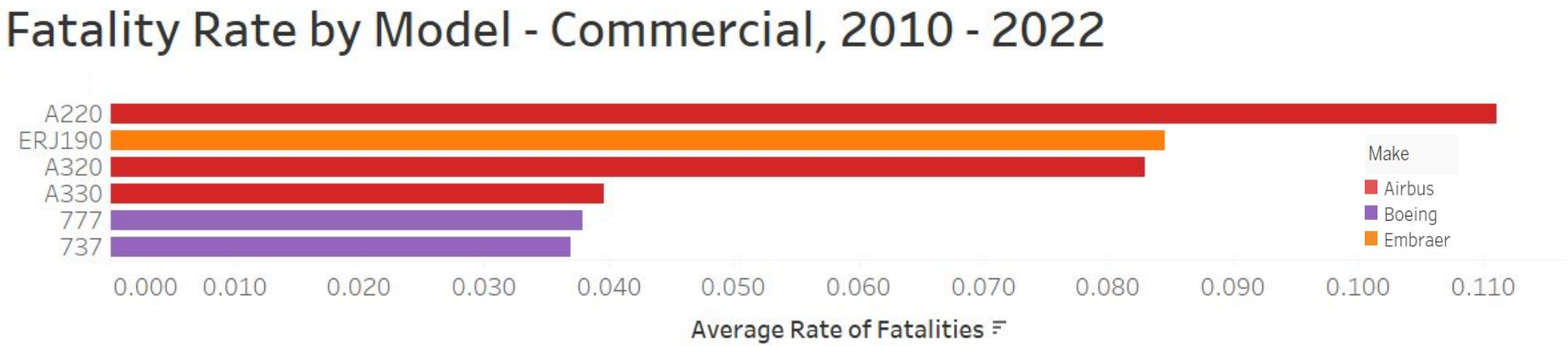


Injury Rates are Lower in Commercial Airlines

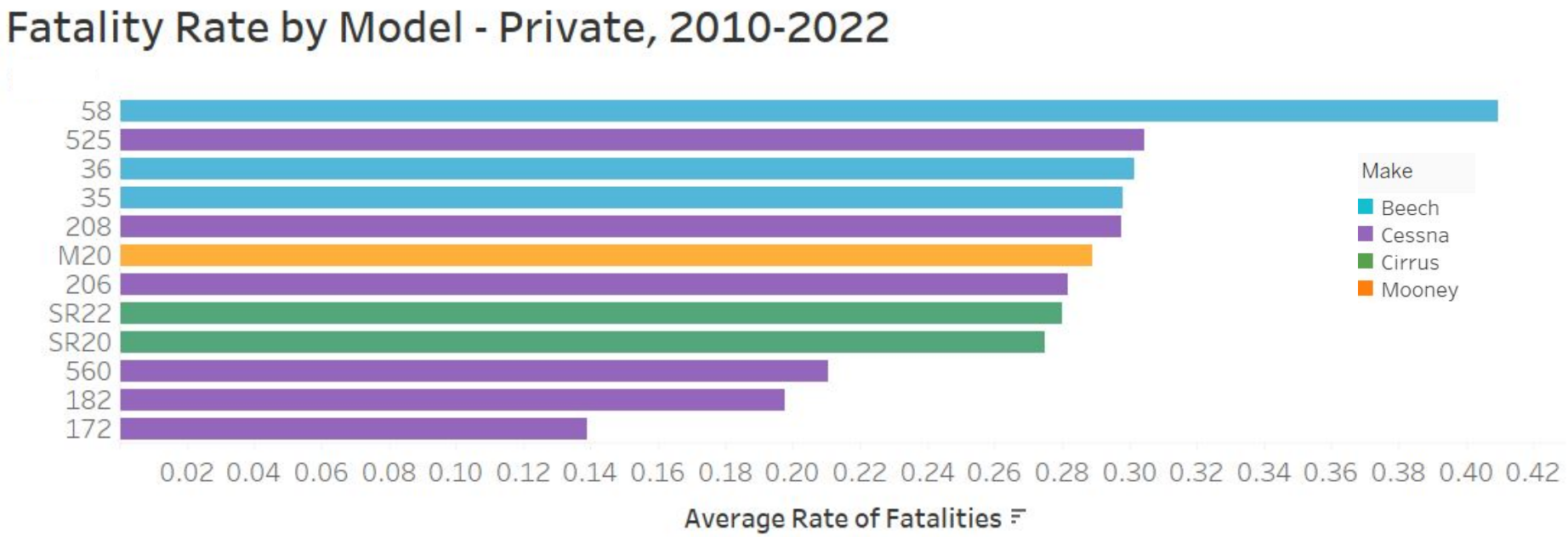




Boeing Has the Lowest Fatality Rate Among Commercial Airlines



Cessna Has the Lowest Fatality Rate Among Private Airlines



Recommendations

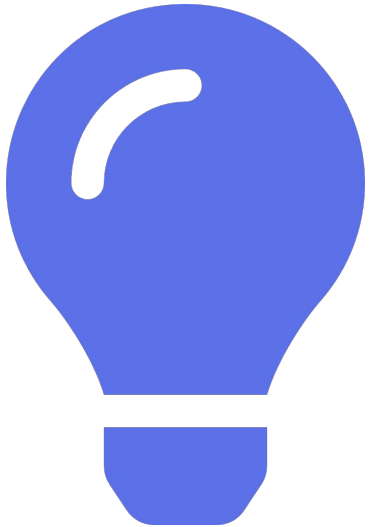
Go Commercial

Boeing 737/777

Private - Cessna 172/182
Alternate - Cirrus SR20/SR22

Future Insights

Future Insights



- Total number of flights
- Compare ROI between commercial and private planes
- Consumer demand for commercial vs. private

Thank You

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Questions?