

# A Risk Assessment Blueprint for Business Expansion in the Aviation Industry



# Goal

- ▶ This project focuses on leveraging data to guide decision-making in purchasing and operating airplanes for both commercial and private enterprises.

## Objectives

- \* To understand the companies owning the largest aviation market share
- \* To make recommendations to move forward with the new aviation opportunity
- \* To develop a brief non-technical presentation for the stakeholders
- \* To develop a Jupyter notebook for Data Scientists to understand data manipulation

# Business Understanding

- Non-Technical Stakeholders:

What make of aircraft is best suited for commercial and private business?

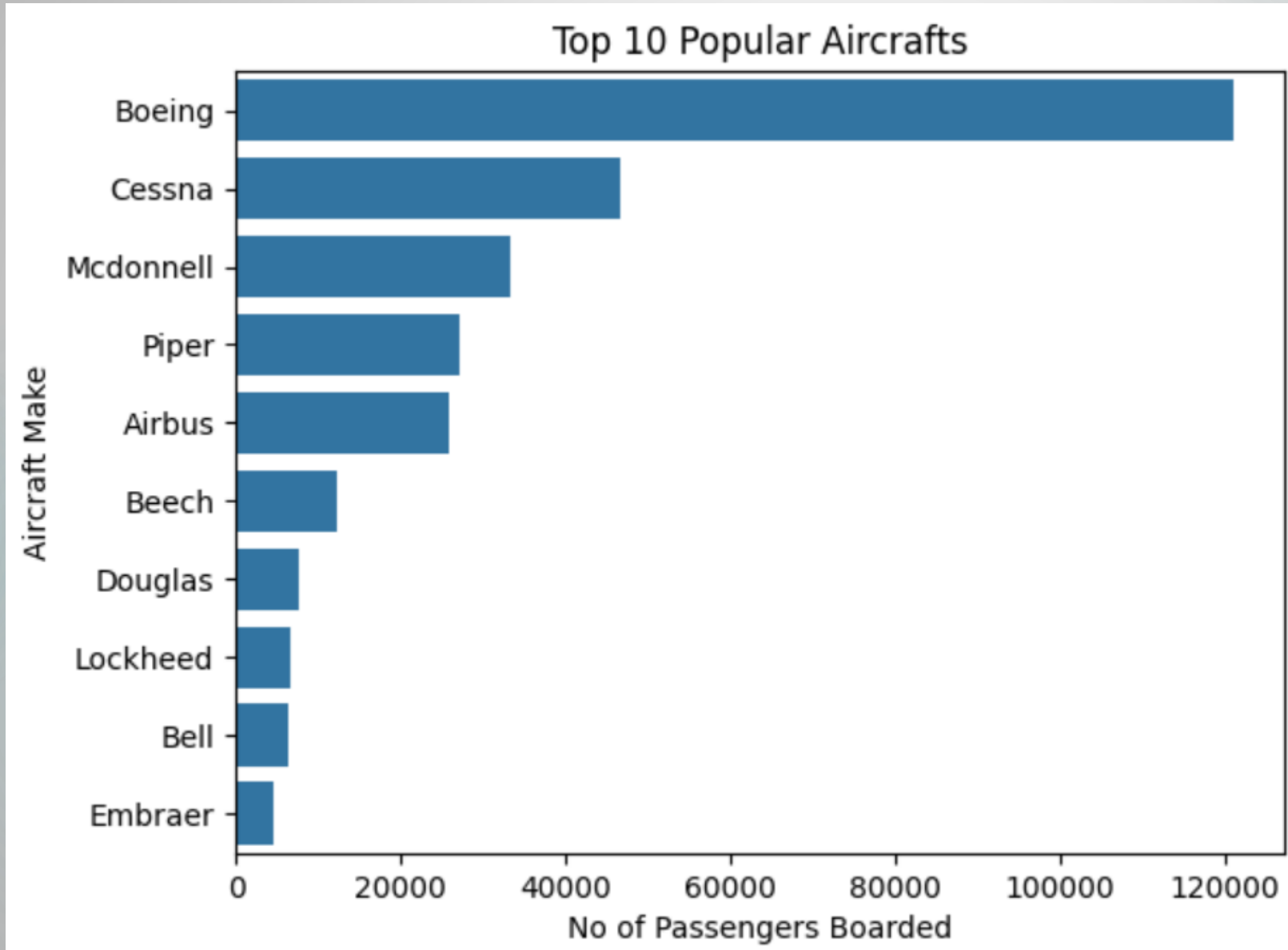
- Data Managers/Scientists:

What libraries and tools were utilized for importing, cleaning, analysing, and visualizing the data?

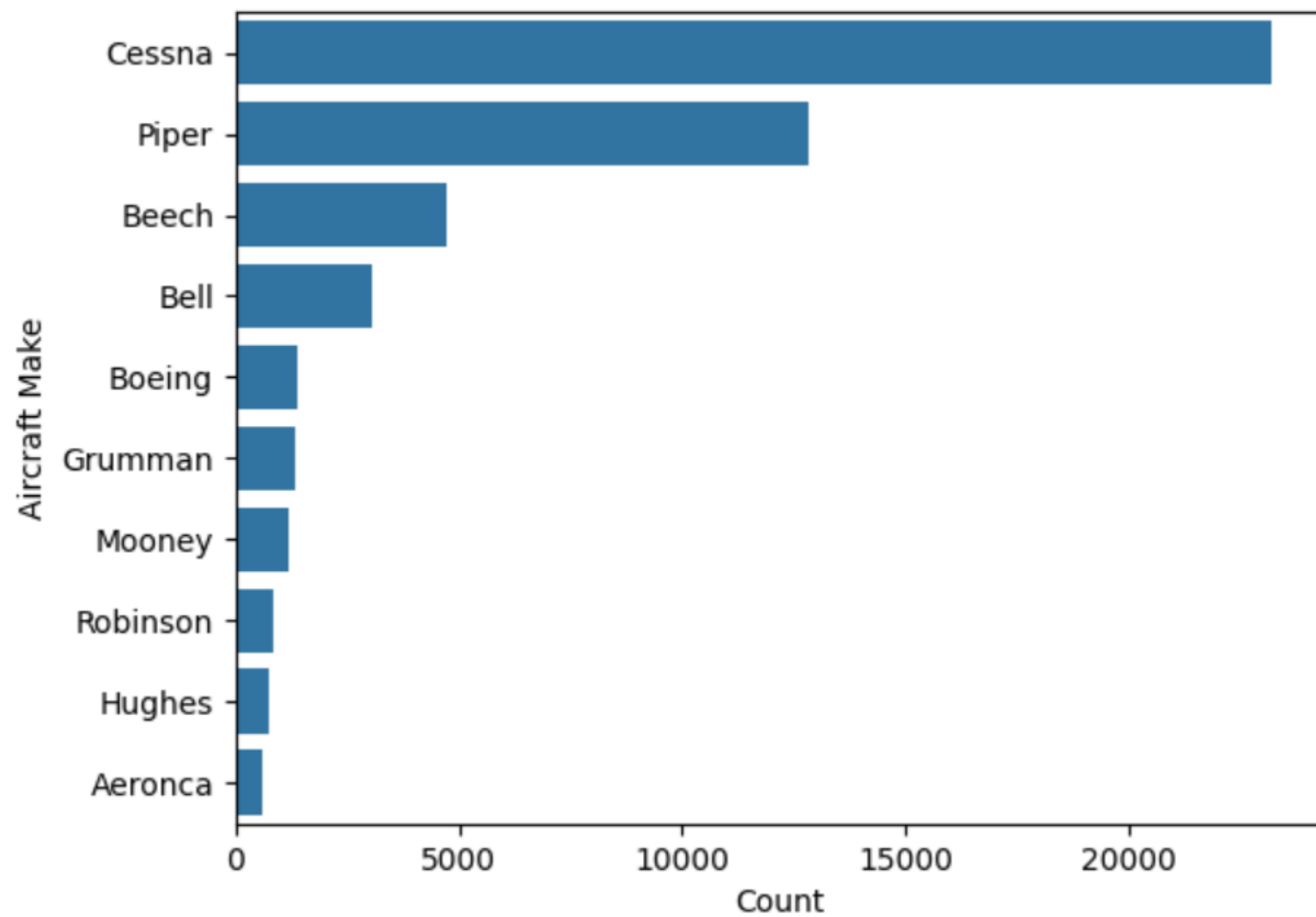
## Data Understanding/Analysis

- We utilize data cleaning, imputation, analysis, and visualization techniques to extract actionable insights.
- The dataset, provided by the United States National Transportation Safety Board, covers civil aviation accidents and incidents from 1962 to 2023

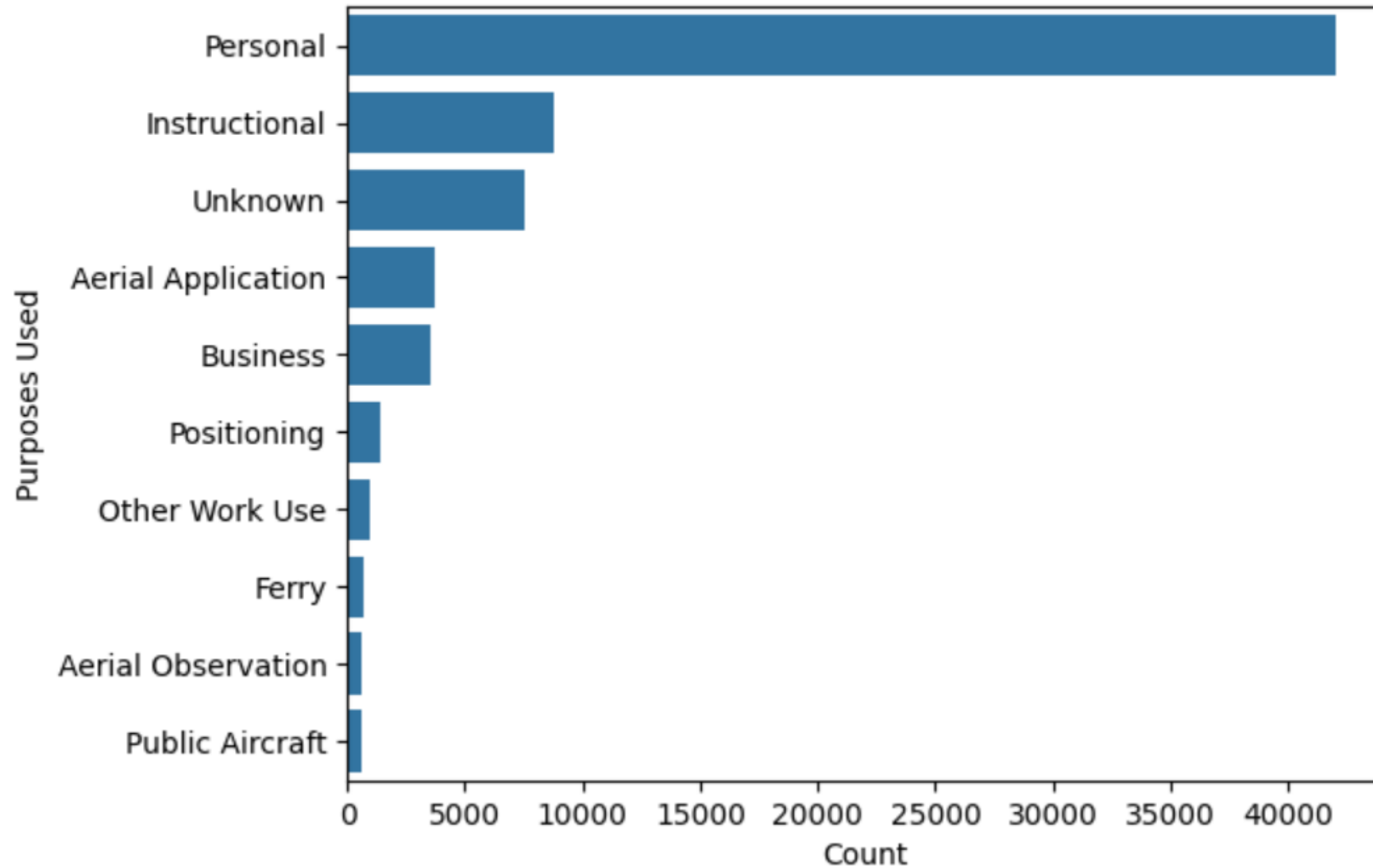
# Visualizations



Number of Accidents Per Aircraft Make



Top 10 Purposes of Flights





# Questions?

# Thank You

Does anyone have a question on the presentation?