

Evaluating Aircraft Safety:
A Risk Assessment Blueprint for
Business Expansion in the Aviation
Industry

Overview

- This project focuses on leveraging data on aviation accidents, to guide decision-making in purchasing the safest aircrafts for both commercial and private enterprises.
- The dataset was provided by the United States National Transportation Safety Board.

Business Understanding

- Non-Technical Stakeholders:**

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

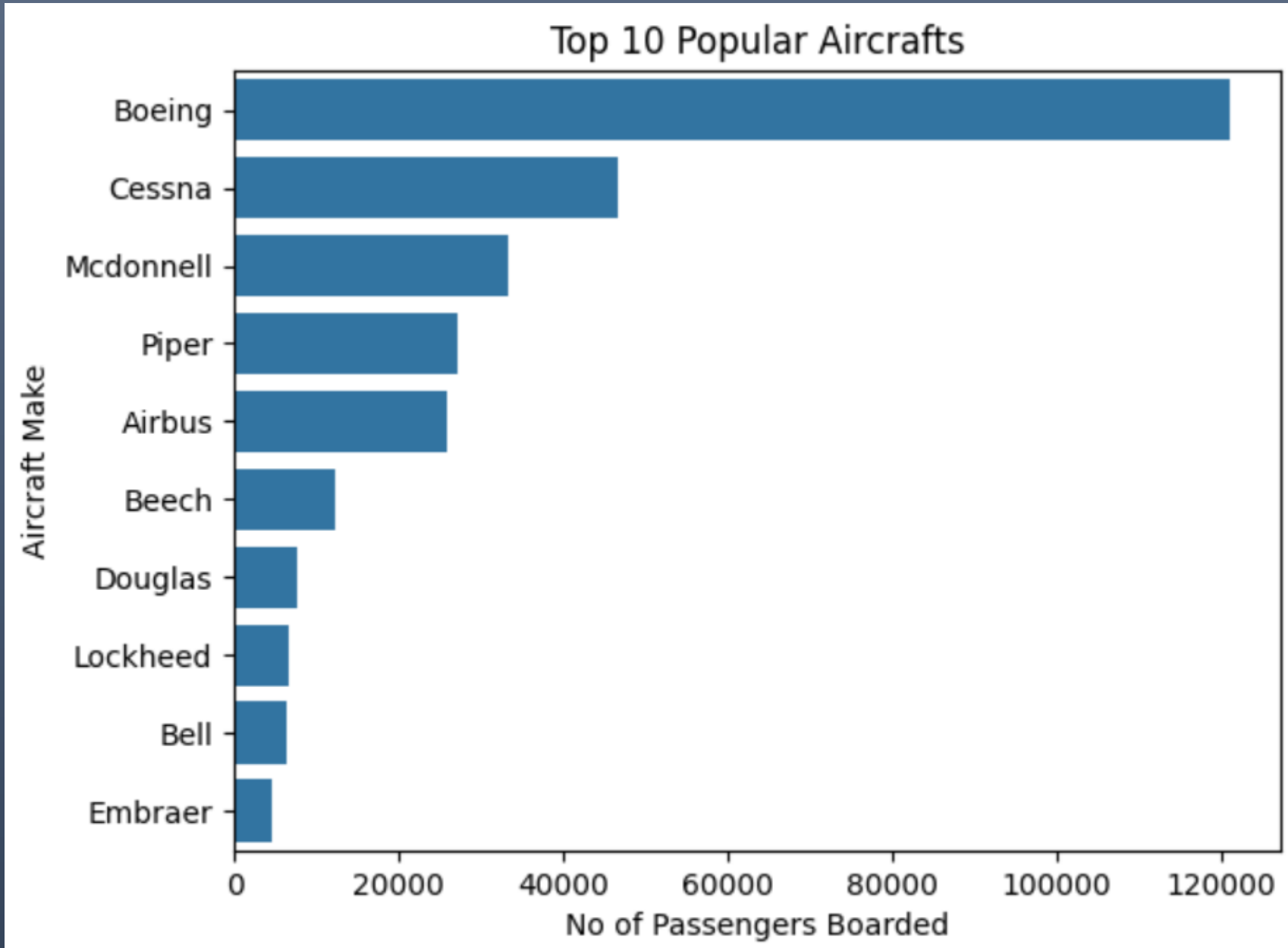
- Data Managers/Scientists:**

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

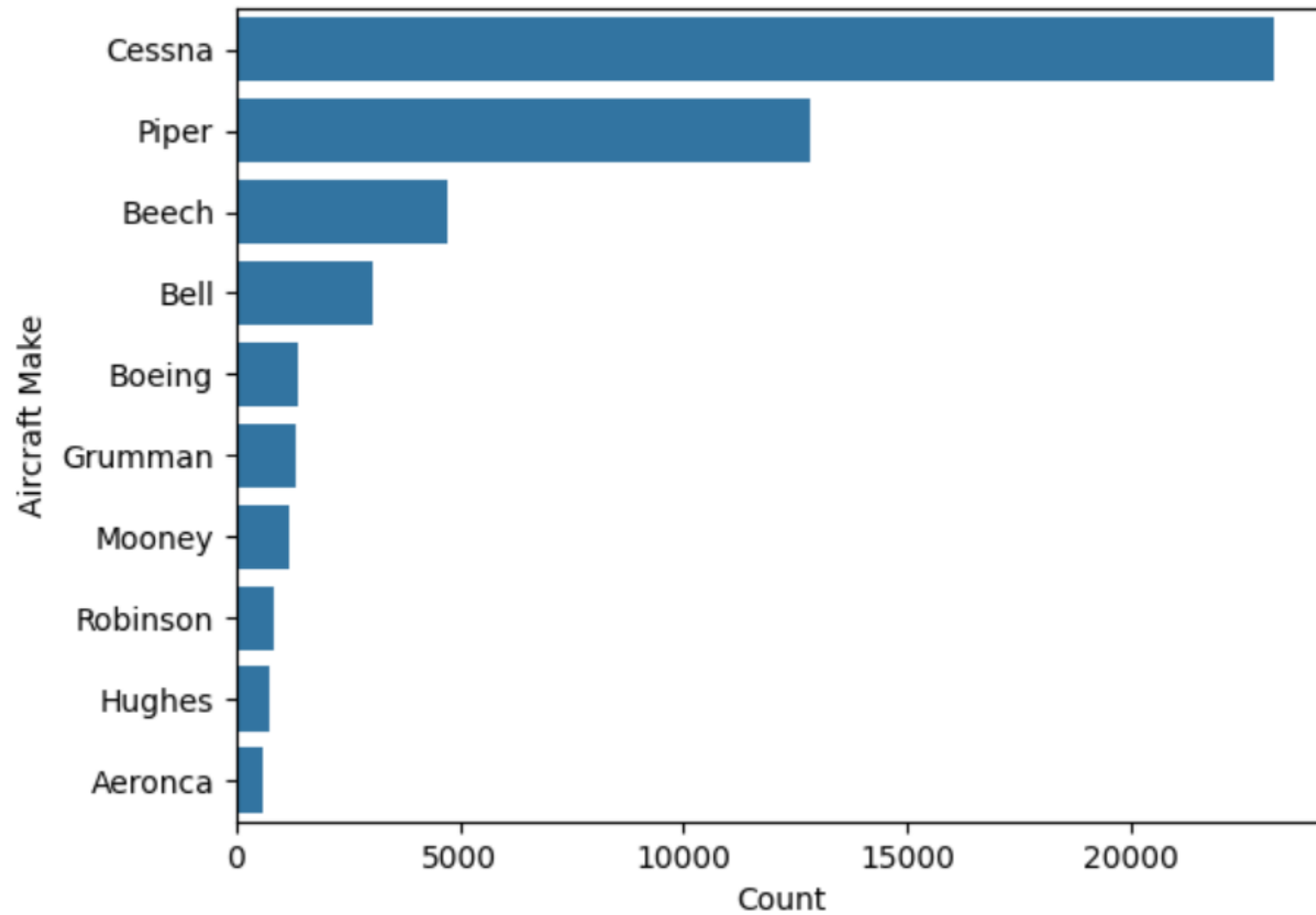
Data Understanding/Analysis

- 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

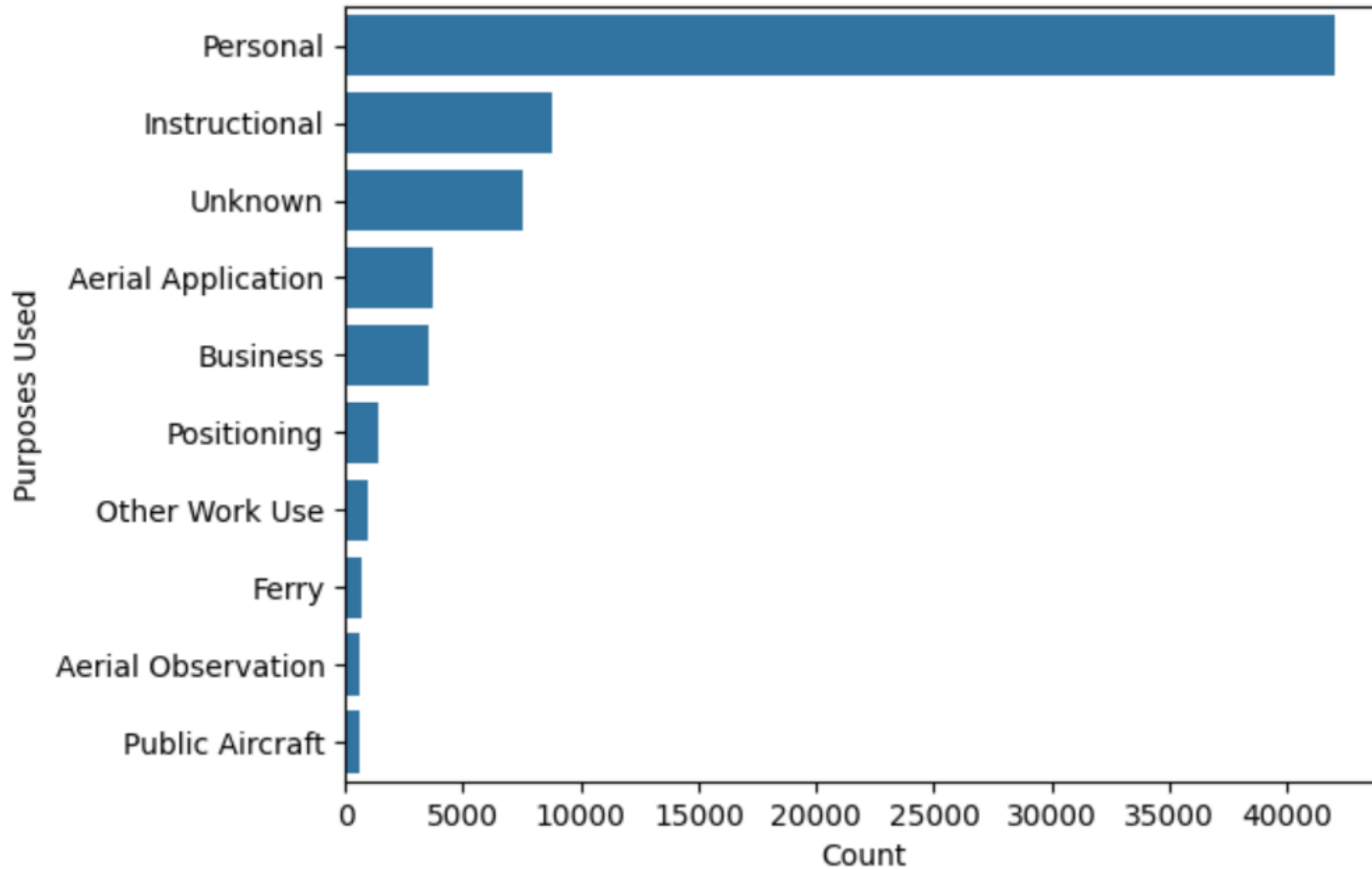
Visualizations



Number of Accidents Per Aircraft Make



Top 10 Purposes of Flights



Models Per Make

