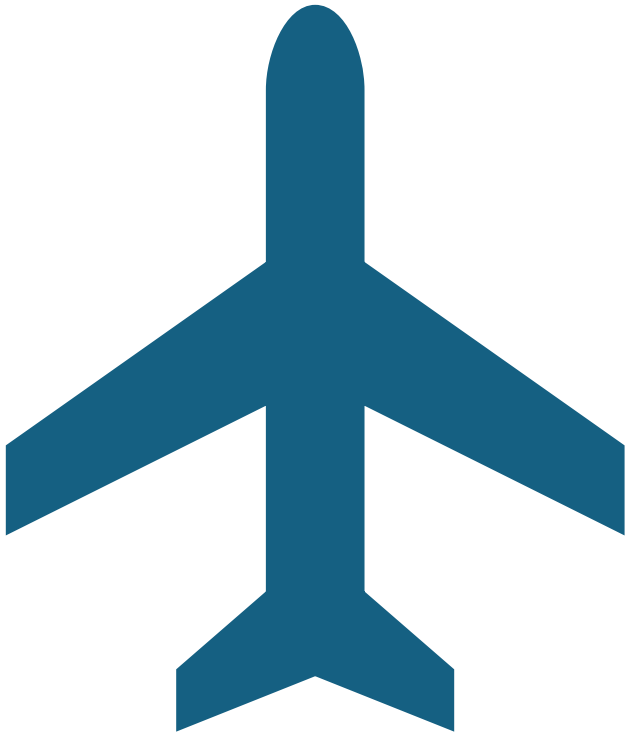


Project Design

Aviation Data Project

Methodology

DATA EXPLORATION

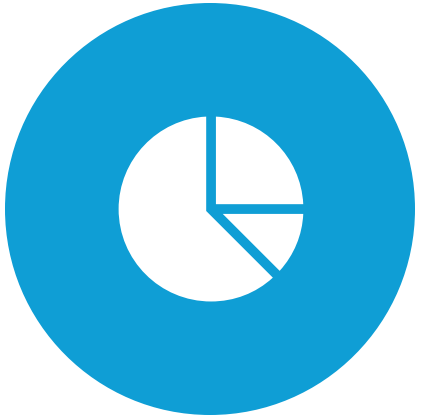
DATA CLEANING

DATA ANALYSIS AND VISUALISATI

Aproach

DATA CLEANING: HANDLED MISSING VALUES, STANDARDIZED TEXT, FILTERED IRRELEVANT COLUMNS.

EXPLORATORY ANALYSIS: IDENTIFIED PATTERNS IN ACCIDENTS BY AIRCRAFT MAKE, CATEGORY, AND ENGINE TYPE.

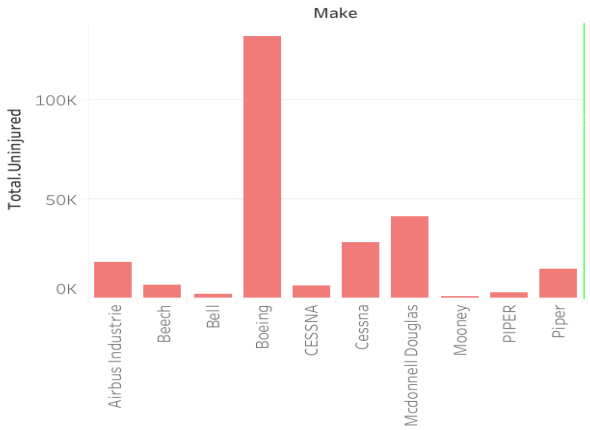


VISUALIZATION: CREATED CLEAR CHARTS TO HIGHLIGHT SAFETY TRENDS.

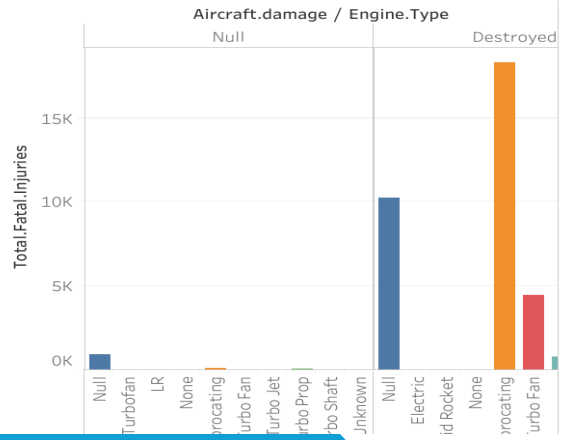
AVIATION DATA ACCIDENT

ATA ANALYSIS

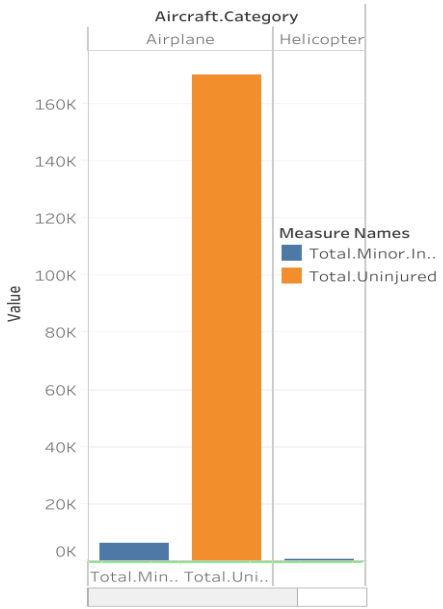
Top 10 Aircrafts by Uninjured Cases



Aircraft Damage by Engine Type



Total Uninjured Cases in Aeroplanes vs Helicopters Category



Total.Minor.Injuries and Total.Uninjured for each Aircraft.Category. Colour shows details about Total.Minor.Injuries and Total.Uninjured. The view is filtered on Aircraft.Category, which keeps Airplane and Helicopter.

KEY FETURES AND RECOMENDATIONS

- **Prioritize Aircraft with:**

1 Airplanes and helicopters had the highest survival rates

2Turbofan/turboprop engines (lower severe damage rates).

3Proven safety records (Boeing, Airbus, Cessna).

4 . Reciprocating engines had the most accidents; turbofans had the lowest severe damage rates