



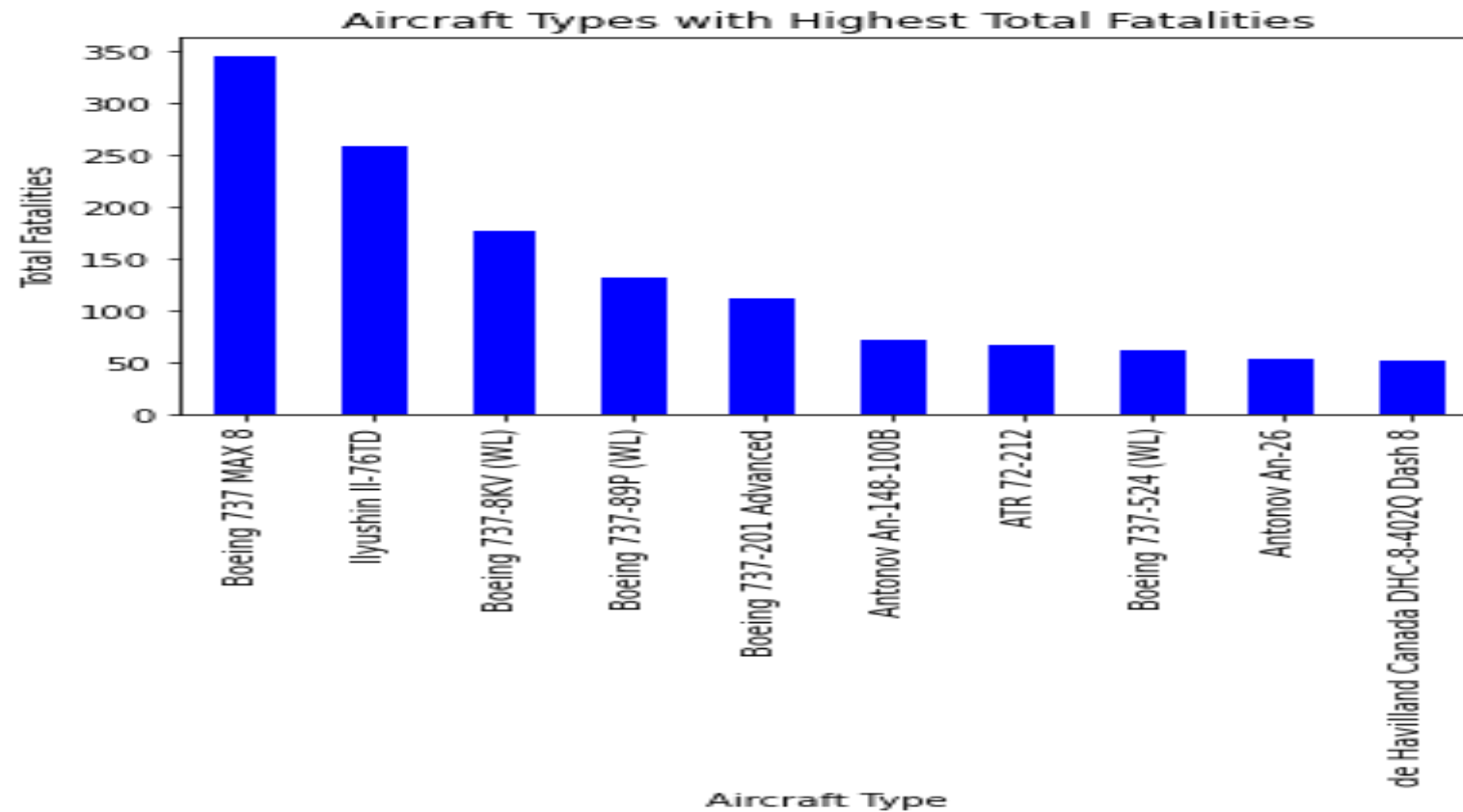
Phase1 Project

JOEL ANDREW

Project Overview and Business Understanding

- This project analyzes decades of U.S. aviation accident data to identify key safety patterns and inform smarter aviation business decisions.
- The analysis supports the company's entry into the aviation industry by identifying lower-risk aircraft using historical accident data.

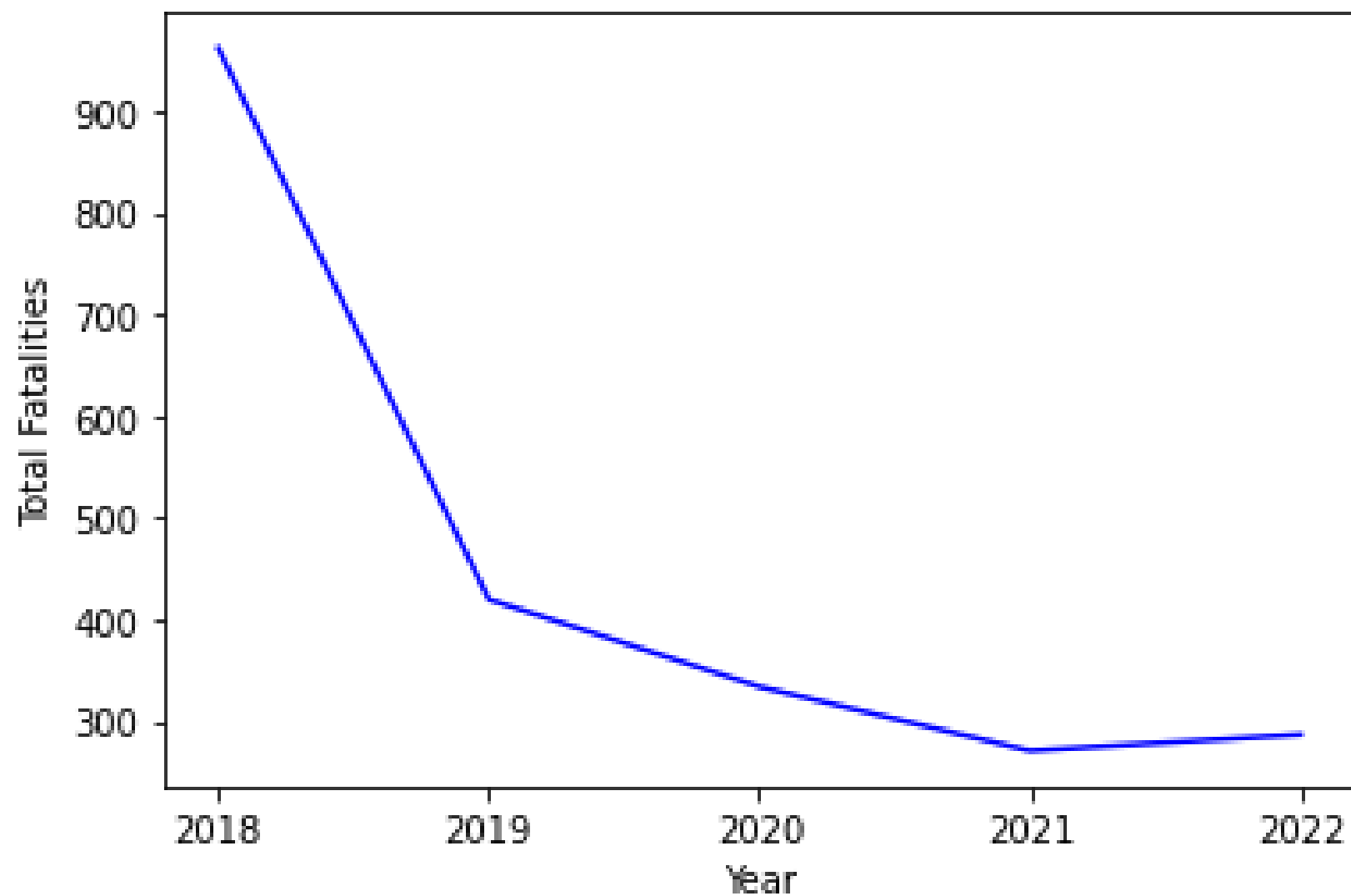
Data Visualizations



Key Insight

- A small number of aircraft types account for a disproportionately high number of fatalities
- Larger commercial and older aircraft models appear more frequently among high-fatality incidents
- Fatality counts reflect severity, not frequency of accidents

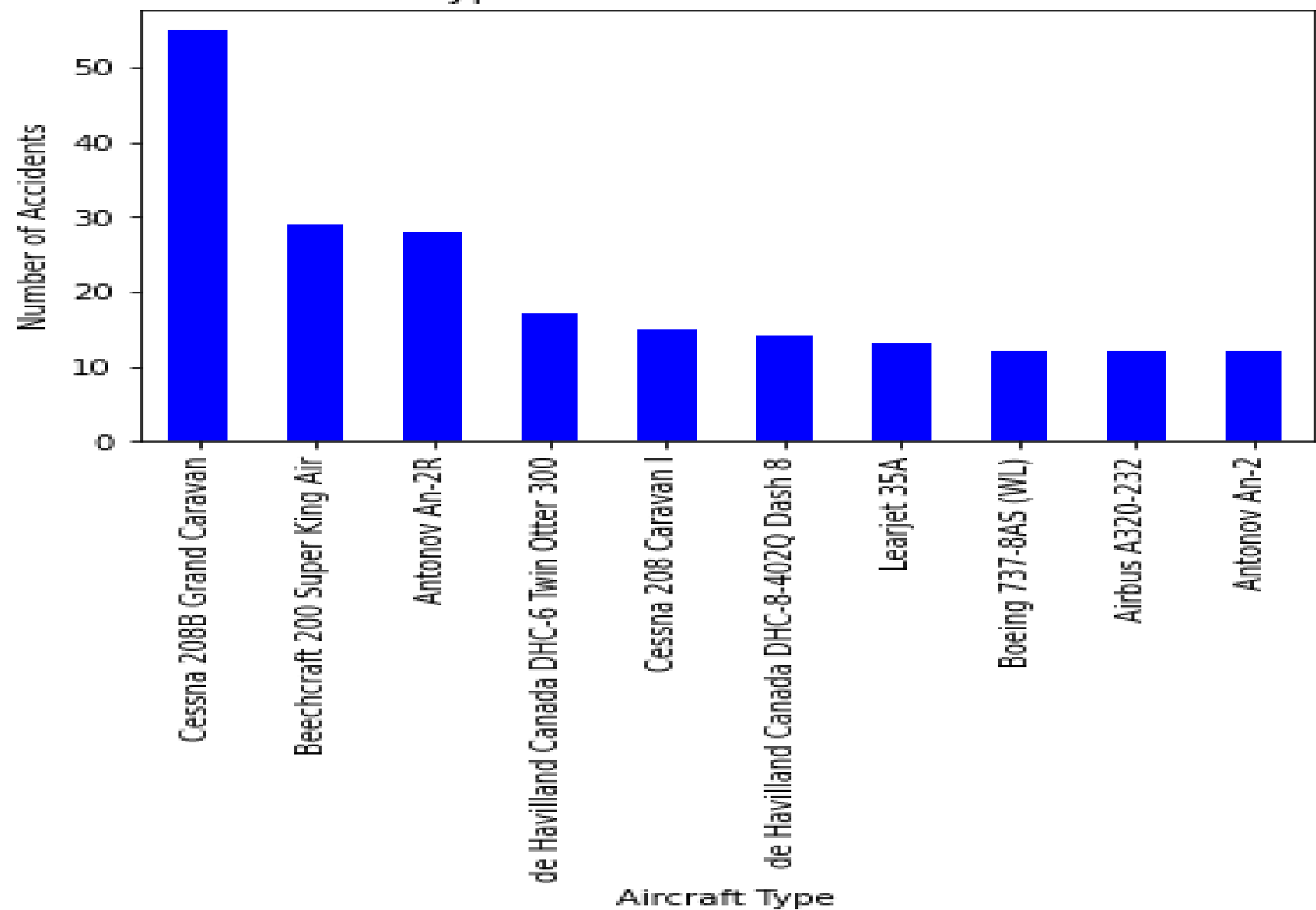
Total Aviation Fatalities Over Time



Key Insight

- Aviation fatalities show a clear downward trend over recent years
- This suggests improvements in safety standards, technology, and regulations
- A slight recent increase highlights the need for continued safety focus

Aircraft Types with Most Recorded Accidents



Key Insight

- Some aircraft types are involved in accidents more frequently
- High accident counts may reflect higher usage rather than higher risk
- Frequency of accidents does not always correlate with fatal outcomes

Recommendations

- Prioritize aircraft models with lower fatality rates, and accident counts
- Favor newer or well-regulated aircraft types with strong safety records
- Combine accident frequency and severity data when making aircraft investment decisions