

Aviation Project presentation

Presented by Mercy Jepkogei

Introduction

This project is designed to carry out a research study on aircraft accidents and provide a detailed report on which aircraft is the safest as well as provide recommendation to a business owner who is venturing into the new business venture .



Project vision and mission

01.

To determine which aircraft has the minimal risk for the company in the new business venture

02.

To provide actionable insights for the management on the design of which aircraft to purchase

Business Understanding

A company is seeking to diversify its portfolio into the aviation venture. This project is designed to provide further knowledge



Data Understanding

The project utilizes a data set derived from National Transportation Safety Board, covering incidents within civil aviation from 1962 to 2023.



Project Variables

01

Number of
Engines

02

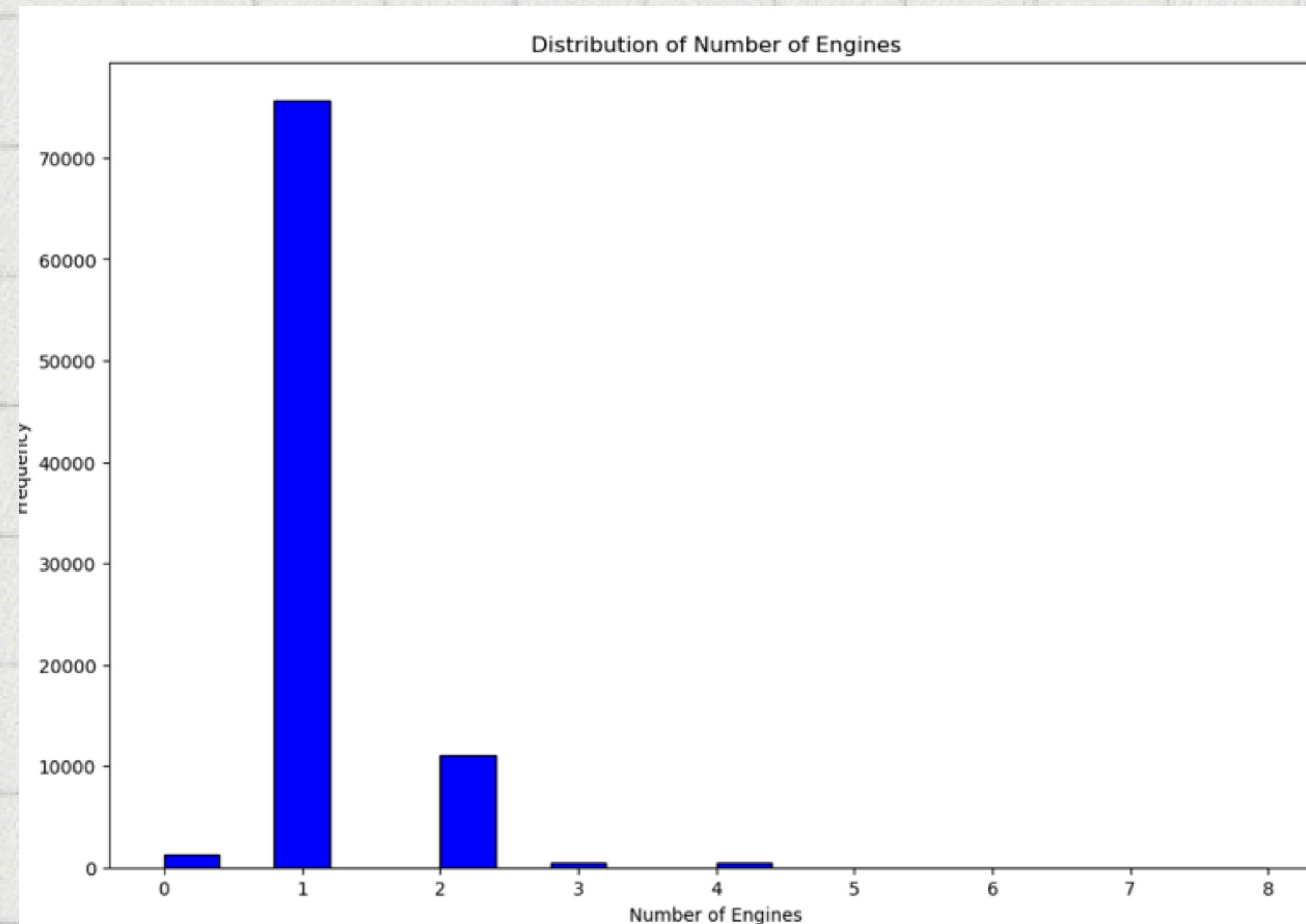
Injury
Severity

03

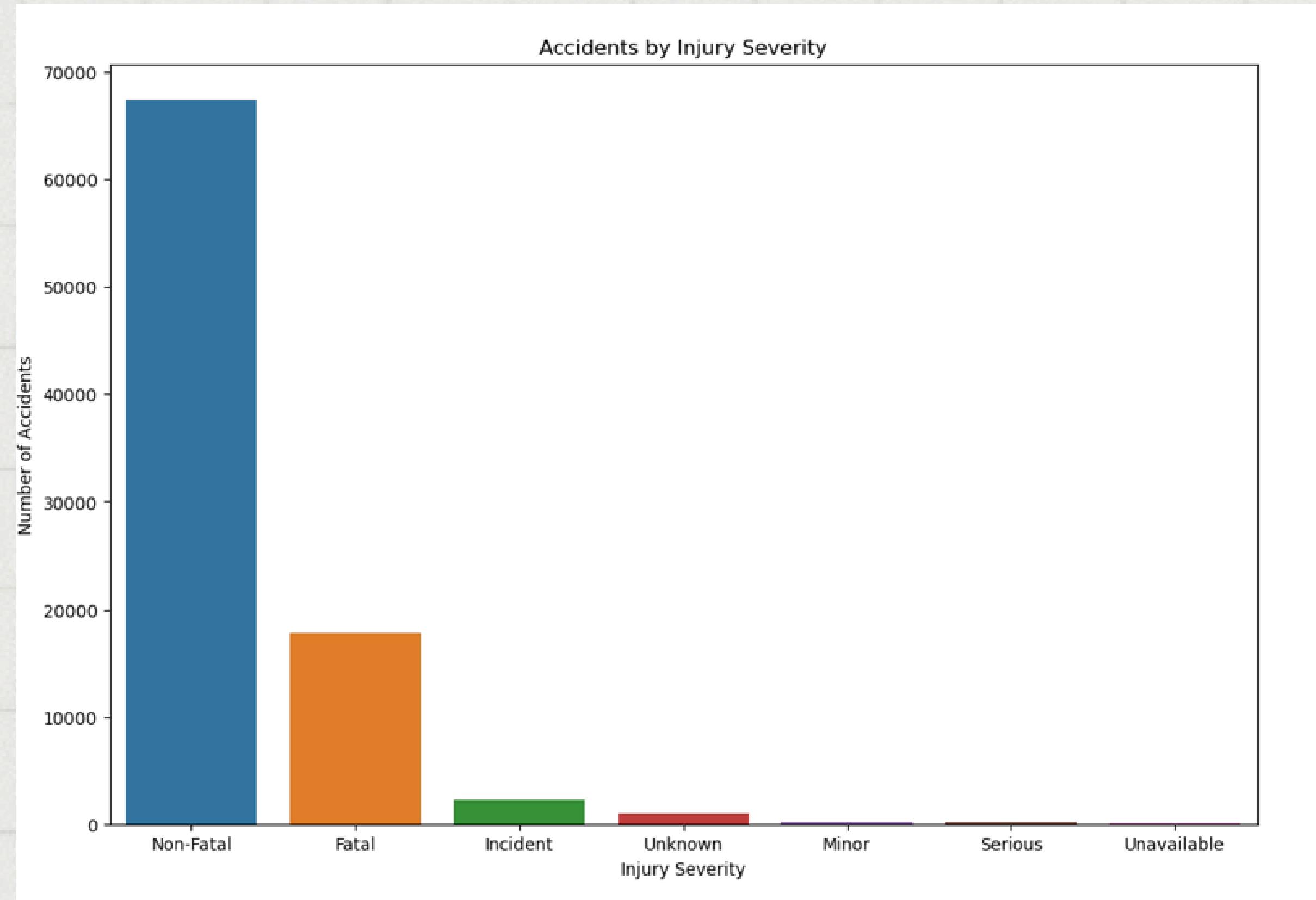
Broad Phase of
Flight

04

Accident
Distribution by
make

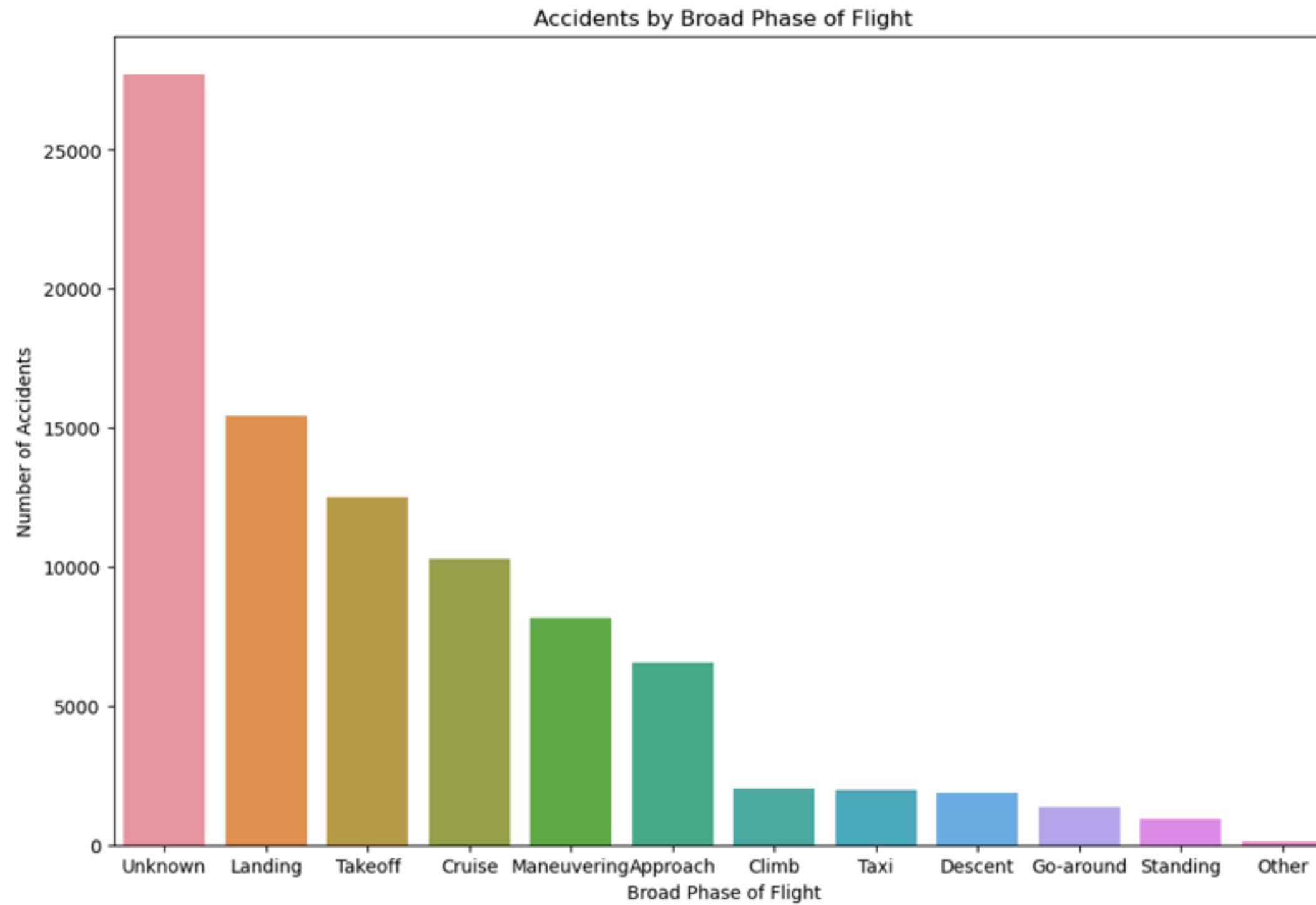


Aircrafts with one engine are more prevalent to accidents.

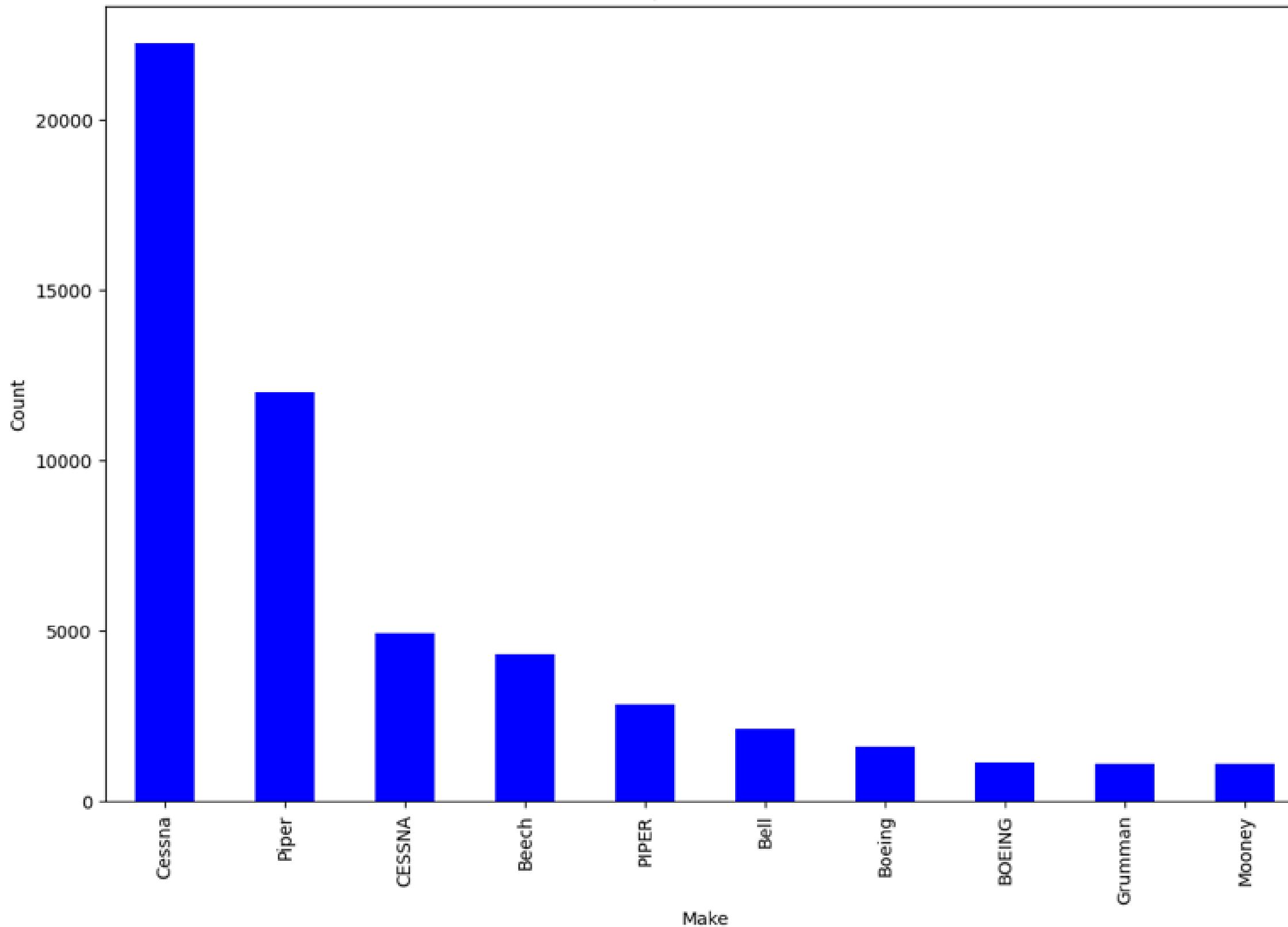


Most Aircraft accidents are non
Fatal

Most accidents occur during landing, takeoff and cruise respectively



Top 10 Makes



Cessna model of
aircraft is more
prone to
accidents

Findings

1. Aircrafts with one engine are more involved in accidents
2. Most accidents occur during landing, take-off and cruise
3. Cessna model aircraft are more prone to accident incidences.



Recommendations

1. Regular inspection and maintenance of Aircrafts
2. Focus on safety procedures and training on critical phase of flights
3. Invest on aircrafts with latest and highest safety technology.



Final reflections and future steps

More study should be done on Aviation Industry to provide a broader scope of knowledge on aircraft accidents.



**Thank you
very much!**

mercyray23@gmail.com