

Aircraft Safety Analysis for Business Expansion

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OVERVIEW

As a strategic plan to diversify its portfolio, our company plans to enter the aviation industry by purchasing and operating airplanes for commercial and private enterprises.

However, the company currently lacks knowledge regarding the potential risks associated with different types of aircraft.

This project aims to provide a data-driven evaluation of various aircrafts to guide the company in making informed purchasing decisions.

BUSINESS UNDERSTANDING

GOALS

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GOALS

Identify aircraft with the best safety, cost-efficiency, and performance.

Evaluate risks based on accident history, maintenance, and manufacturer reliability.

Recommend aircraft suited to the company's operational strategy.

DATA UNDERSTANDING

MENTION THE DATASET USED

KEY COLUMS

EXPLAIN

KEY COLUMNS

The following columns are key to assessing the aircraft's safety and risk:

- Total. Fatal. Injuries: The number of fatalities in the accident.
- Total.Serious.Injuries: The number of serious injuries in the accident.
- Total.Minor.Injuries: The number of minor injuries in the accident.
- Aircraft.damage: The extent of damage to the aircraft (e.g., Substantial, Destroyed).

KEY COLUMS CONT

- Make: The manufacturer of the aircraft.
- -Model: The specific model of the aircraft.
- Engine. Type: The type of engine (e.g., Turbofan, Piston).
- Broad.Phase.of.flight: The different stages during which the aviation accident occured(e.g cruise,landing)

DATA ANALYSIS

GRAPH 1

GRAPH 3

GRAPH 2

RECOMMENDATIONS

THANKYOU

QUESTIONS?