Background

The Aviation Accident Database & Synopses dataset provides records of aviation accidents from 1962 to 2023, collected to help understand the causes, patterns, and impacts of aviation accidents over time. This dataset contains detailed information, including accident dates, causes, aircraft types, locations, and outcomes (injuries, fatalities).

Dataset

The source of this data is Kaggle. The dataset has a historical record of 1982 to 2023. The purpose of this dataset is to find solutions for the increased aircraft accidents. This dataset has 88889 rows and 31 accidents. There are Numerical data, Categorical data, Date/Time data, Text data and Boolean where there are fatal and nonfatal. This Dataset was collected due to increased Aircraft accidents. The goal of this dataset is to reduce the aircraft accidents. I've analysed this dataset by first getting rid of all the columns with over 50% null values, getting rid of all the rows without united sates since that is where most accidents took place. I analysed it to a point where I was able to know the aircraft models that caused most accidents in a certain year. I also realised that there are three Aircraft that don't have the the total fatal injuries and total serious injuries, they only have one minor injury.

Business Problem

The problem identified in this dataset is that there is a mechanical related issues whereby in some airplanes the number if engines are less, there are weather related problems and some aircraft models are at a very high risk.

conclusion

I realized that there are specific models that cause more accidents and there are three model that have zero Total Fatal Injuries, zero Total Serious Injuries and one Total Minor Injury. The Model are Model Make
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