

The background of the slide features a light blue sky with several white, fluffy clouds. In the upper left, a blue commercial airplane is shown in flight, angled towards the right. On the right side, a dark blue air traffic control tower stands prominently. A person with dark hair in a bun, wearing a white long-sleeved shirt and white pants, is standing in the foreground near the base of the tower. They are holding a smartphone in their right hand and looking at it. The overall style is clean and modern, using a limited color palette of blues, whites, and dark blues.

# PROJECT ON AIRCRAFT RISK ANALYSIS

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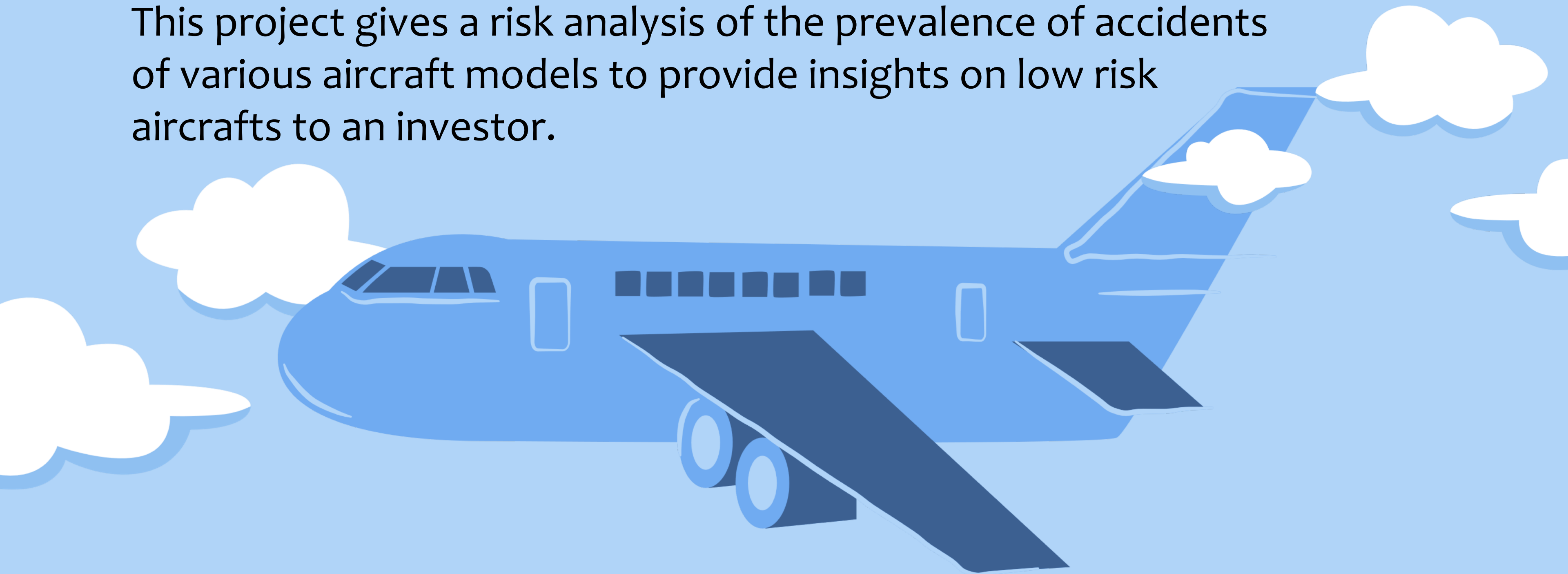
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# OVERVIEW

This project gives a risk analysis of the prevalence of accidents of various aircraft models to provide insights on low risk aircrafts to an investor.



# BUSINESS UNDERSTANDING

## Introduction

There is often a lack of information on risk analysis of aircrafts to investors who may wish to venture into the industry. By analyzing this data, i intend to demonstrate the aircrafts that have a low risk of accidents hence guide in decision making.

## Key Questions

- 1) What make of aircraft make is prone to more accidents?
- 2) What is the effect of weather conditions on aircraft damages?
- 3) What is the relationship between the purpose of the flight, make and aircraft damages?

# DATA

- This dataset dates from 1962 to 1993 on various aircraft model accidents across the world.
- The database provides information on the conditions surrounding the accidents.
- The dataset is incomplete as some parameters have some missing information.
- Parameters such as geographic positioning which is deemed not relevant to this analysis will be dropped.



# ...D... CONT.D



Some of the findings from the analysis of the data that are linked to the objectives is that-

Personal flights contribute to a significant number of accidents.

Cessna and piper aircraft makes seem to have the most incidences of accidents unlike the Gowan, Gough-herrman, Goss and Gothard that seem to have a lower risk for accidents.

Most accidents seem to occur in good weather conditions

# ...D... CONT.D



Based on the analysis the low risk aircrafts namely Gowan, Gough-herrman, Goss and Gothard but not limited to these are recommended for investment. In addition to this the following measures are recommended to go hand in hand with investing in low risk aircrafts-

Comprehensive education and training programs for personal flights to avert the high number of accidents

Aviation safety, rigorous maintenance and inspection programs must be put in place and implemented to the letter.

Responsible flying be encourage through awareness campaigns and trainings

# QUESTIONS???

## THANK YOU!

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