

Planes You Should Buy

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Outline

- The Business Problem
- The Data Source
- Our results
- Recommendations and Next Steps

Business Problem

MACB company is expanding in to new industries to diversify its portfolio. And are they are interested in purchasing and operating airplanes for commercial and private enterprises.

Which aircrafts have less risk to have accidents?

What are some factors they maybe having accidents?





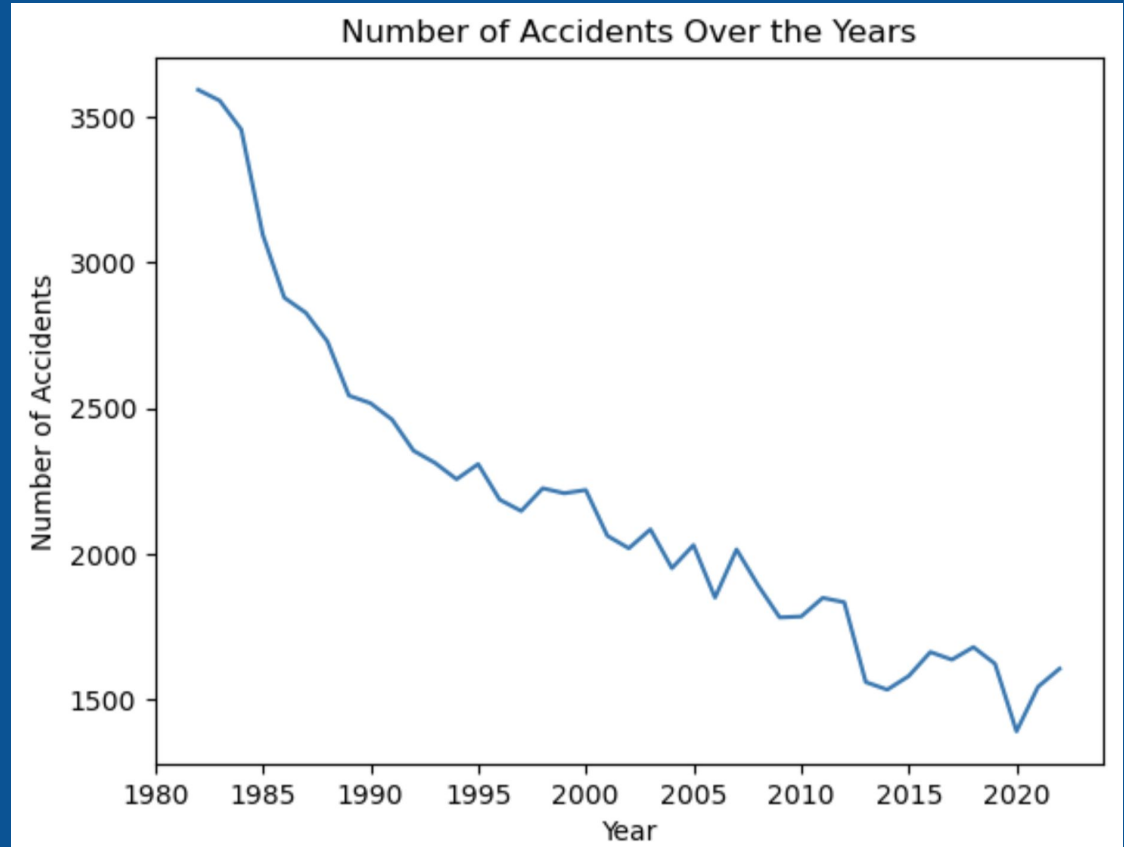
Data source

Our Data was taken out from a file in Kaggle named ‘Aviation Accident Database & Synopses, up to 2023’ which the Data Frame had 90348 rows and 31 columns

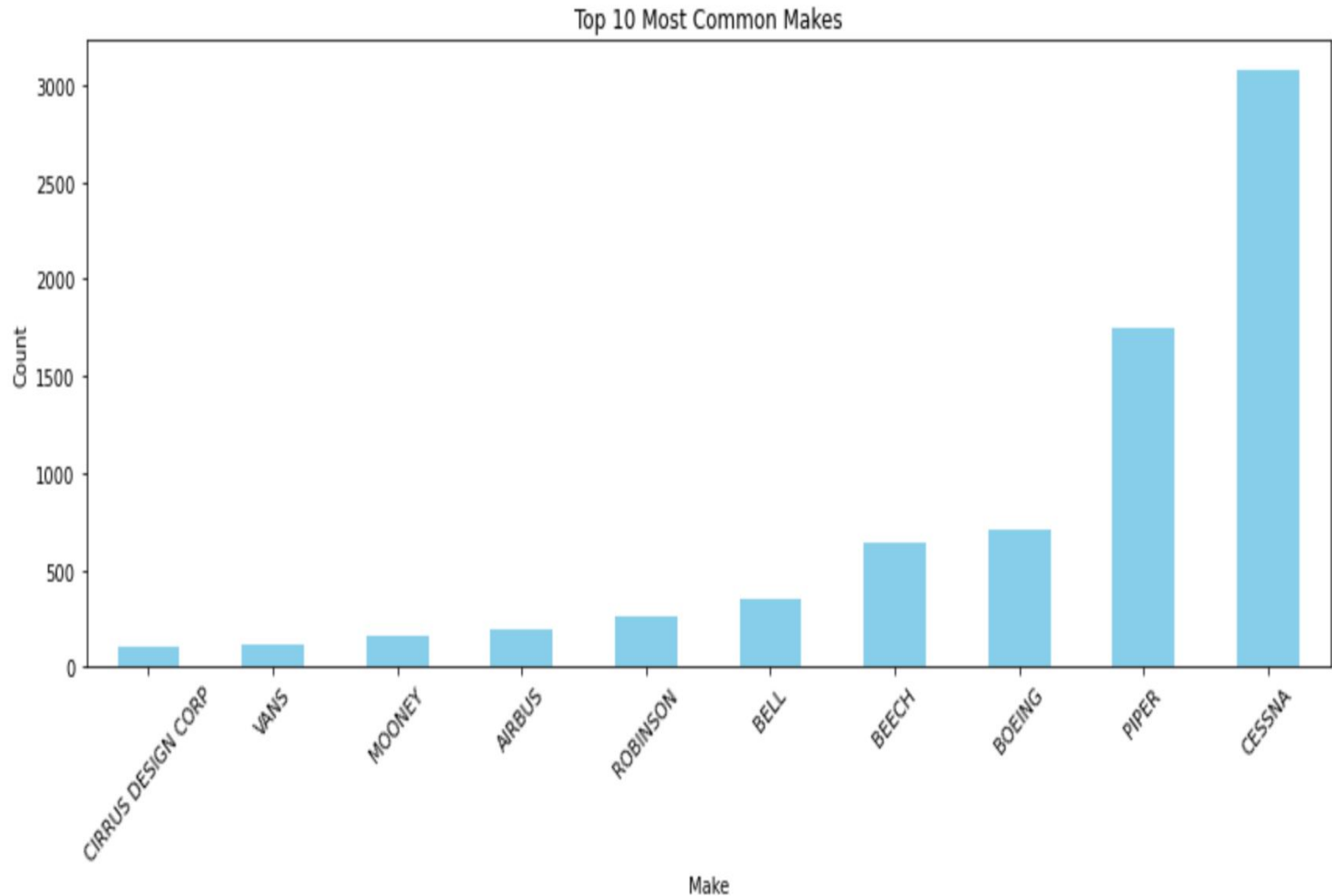
Data Exploration

Though time the numbers of accidents have been decreasing:

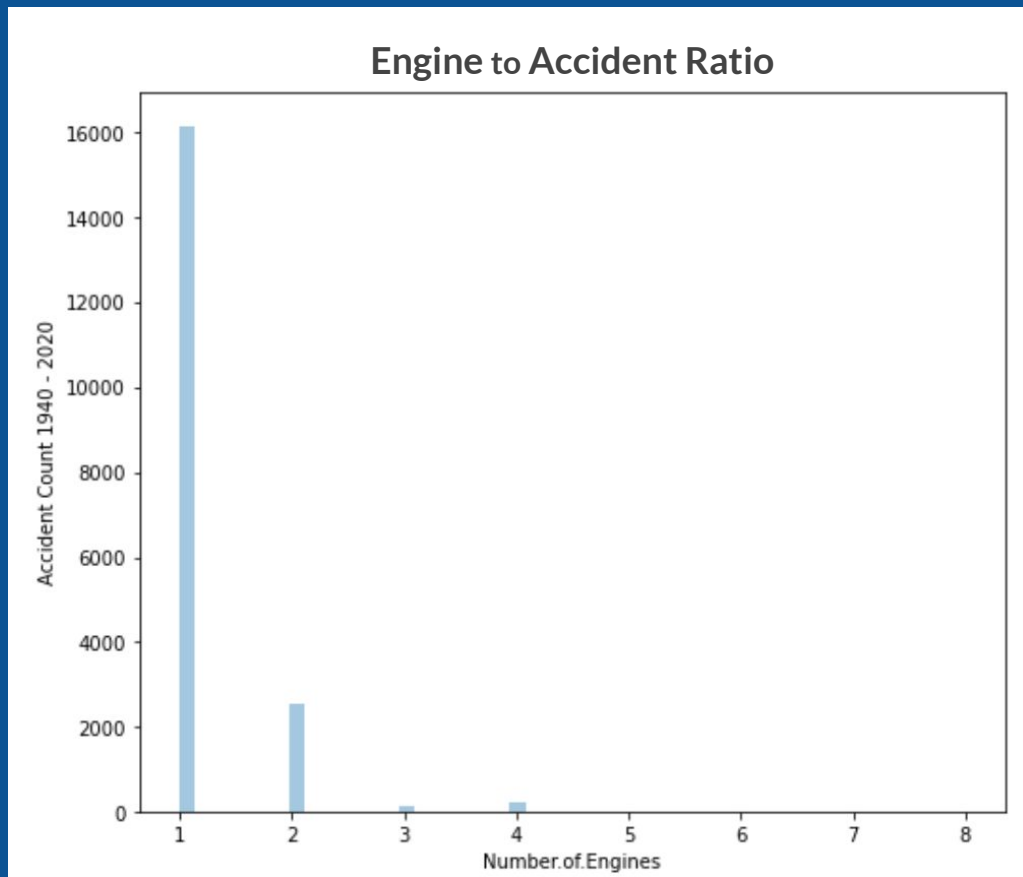
- Better technology
- Update airplanes



These are
the most
common
Makes.

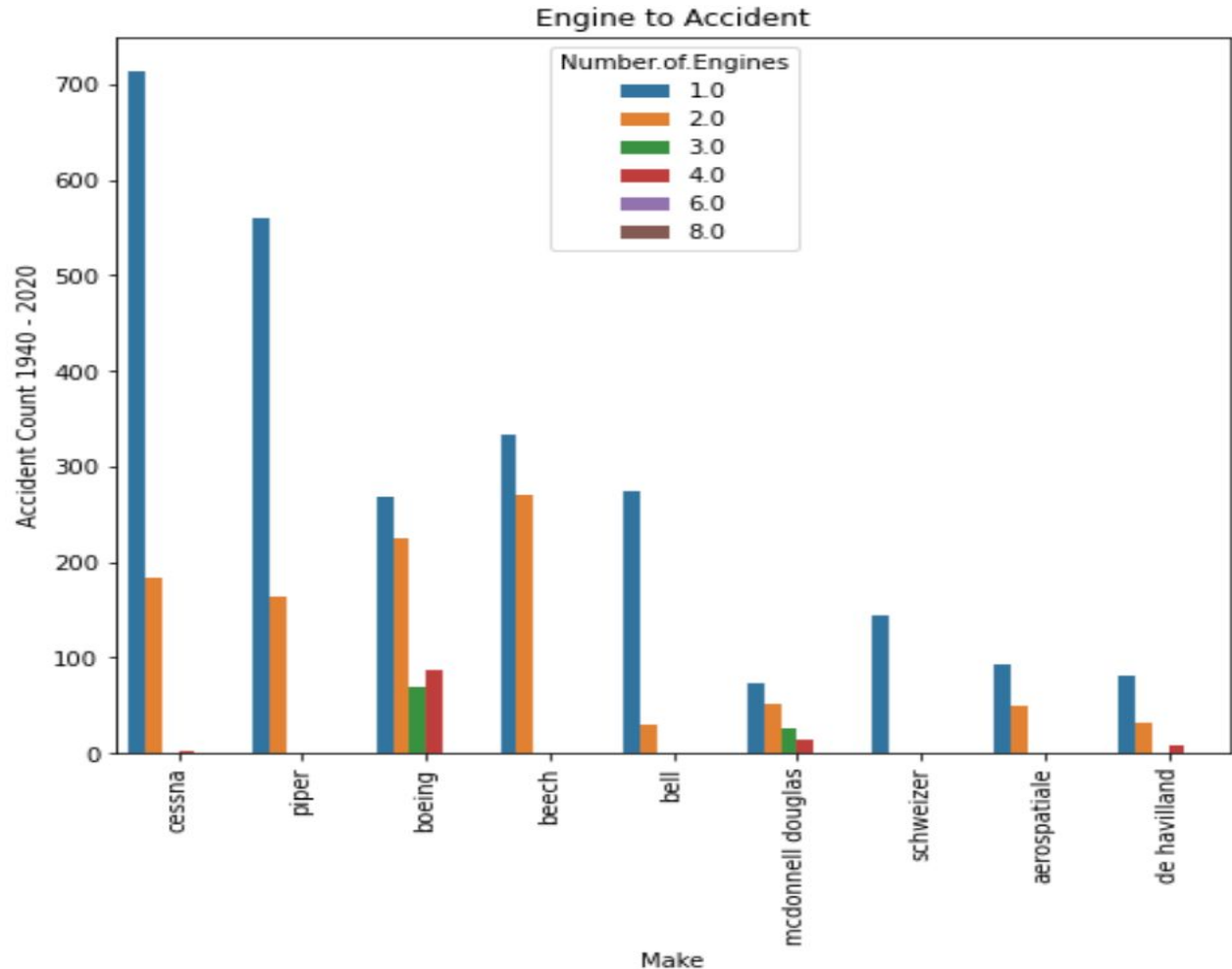


Based off our
research on this
data frame.
Planes with
fewer engines
are more likely
to crash!

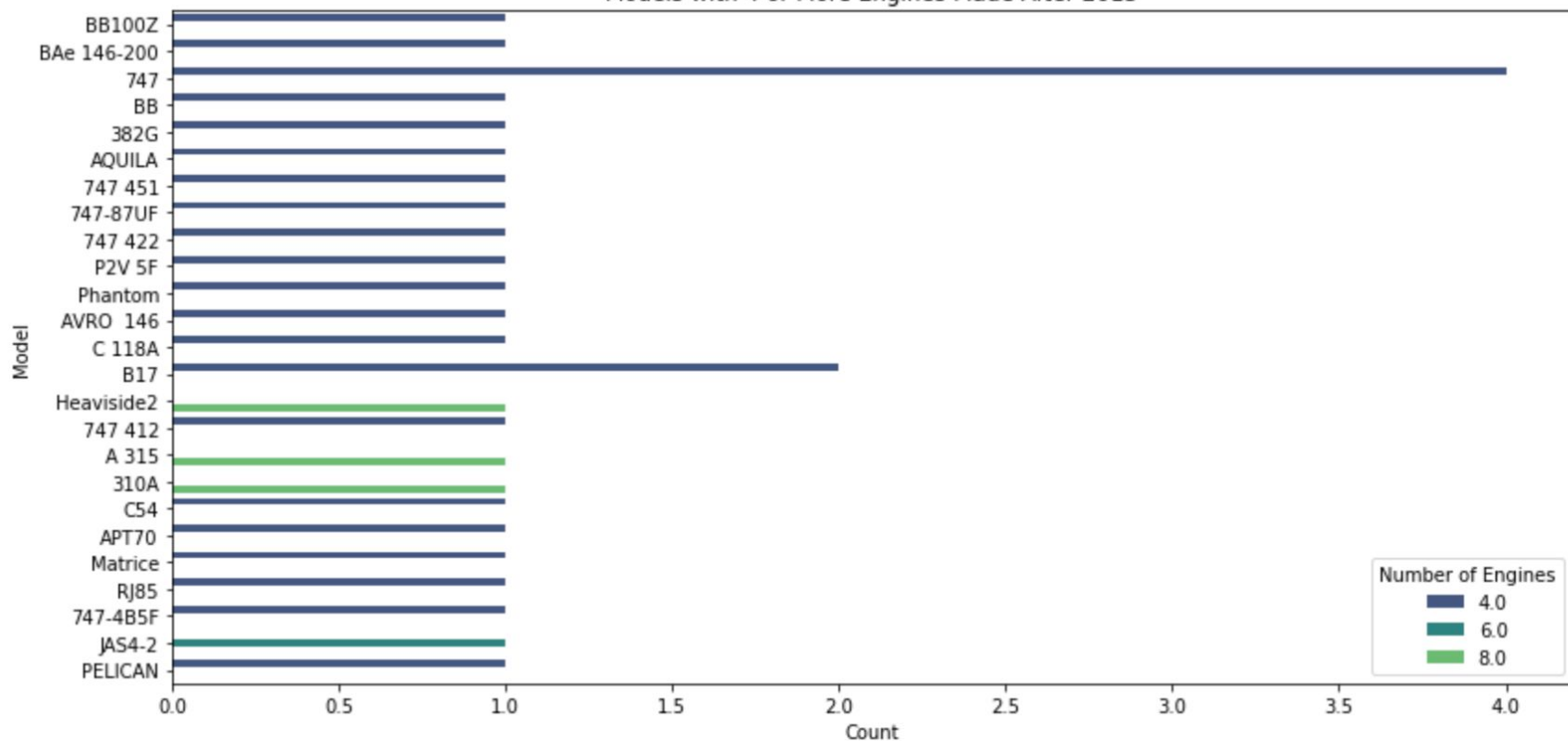


Make to Accident Ratio

As you May be
able to see in
BOEING brand
have models
with 4 engines.

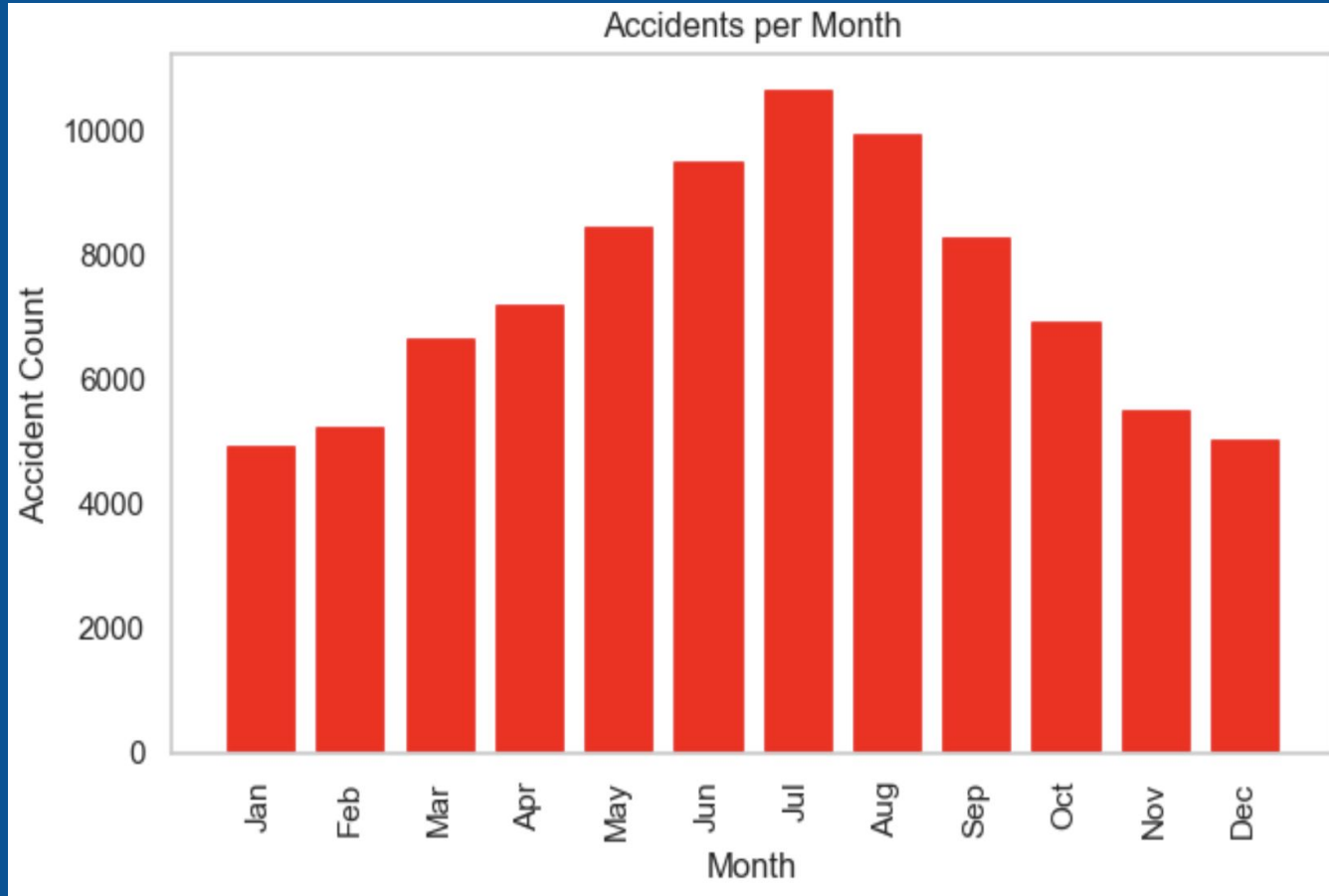


Models with 4 or More Engines Made After 2015



Date vs. Accidents

June, July, and
August has
high accident
counts.

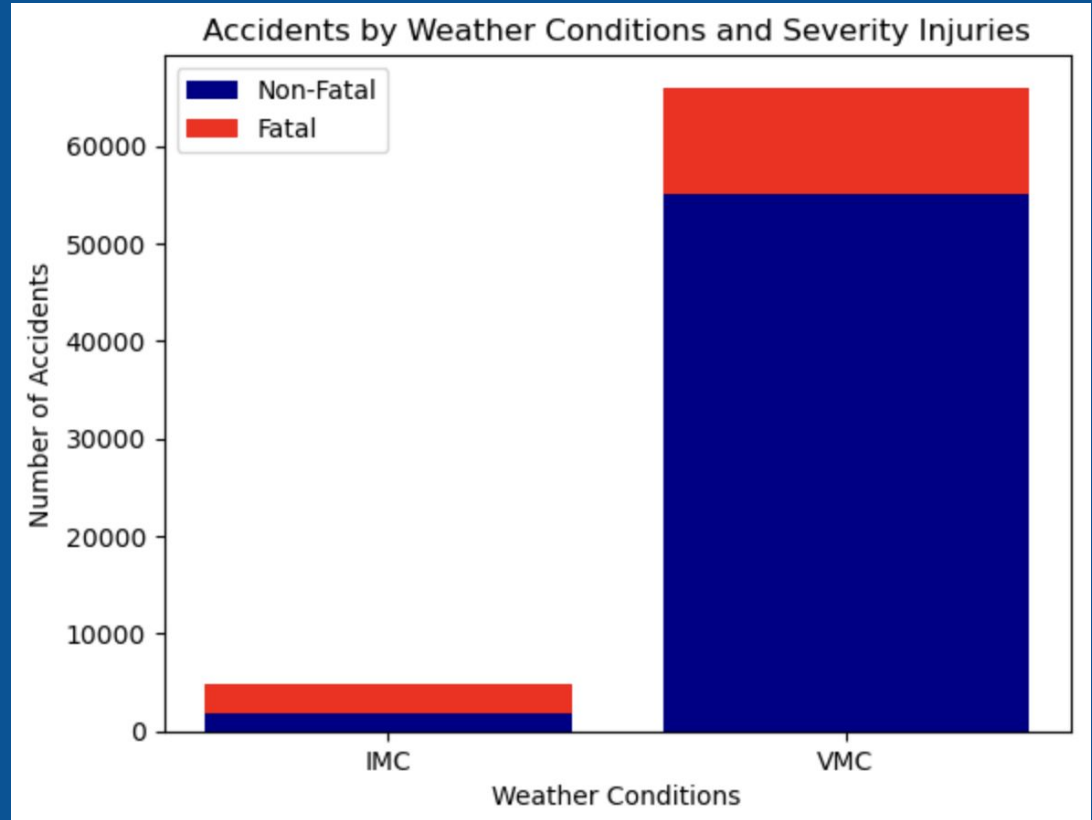


Weather vs Accidents

VMC: Visual flight, clear weather

IMC : Fly by a flight instrument and is usually in bad weather

Weather does not influence having an airplane accident!





Recommendations

- Based on the research we've done we recommend the 747, the Heaviside2, B17
- Makes with more engines are the best and safest to buy.
- Having less transit of airplanes in June, July and August can reduced accidents that were usually happening at this time of the year.
- Planes built in recent years are safer.

Next Steps

- Find out where can we get more planes 4 or more engines
- Gather more data on our recommendation as time goes by
- Find out if our planes are commercial or private.

Any Questions?

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