

OPERATION ENDEAVOR



FLIGHT SCHOOL RISK ANALYSIS

OUR TEAM



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FLIGHT SCHOOL
• READY FOR TAKE OFF •

BUSINESS VENTURE

Two stages:

- 1. Flight Instructor School**
- 2. Plane rentals for certification and licensing**



Top Models



Cessna 150



Cessna 152



Cessna 172



Piper -P28

BUSINESS OBJECTIVES

01

02

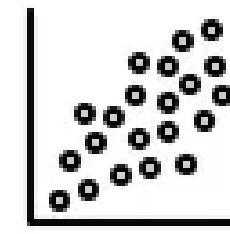
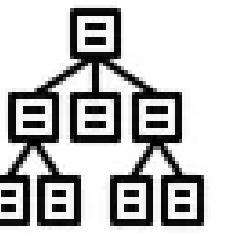
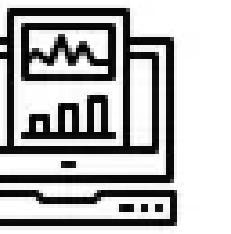
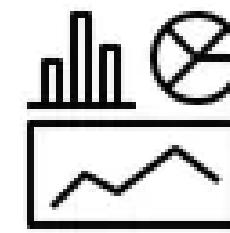
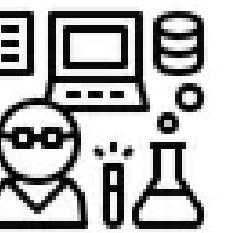
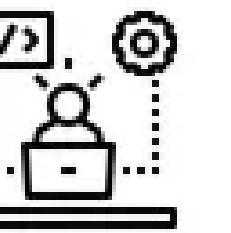
03

WHICH MAKE AND
MODEL IS THE
SAFEST TO FLY?

WHAT TIME OF
YEAR PROVIDES
FOR THE
SAFEST FLYING
CONDITIONS?

WHERE SHOULD
WE OPEN THE
FIRST
LOCATION?

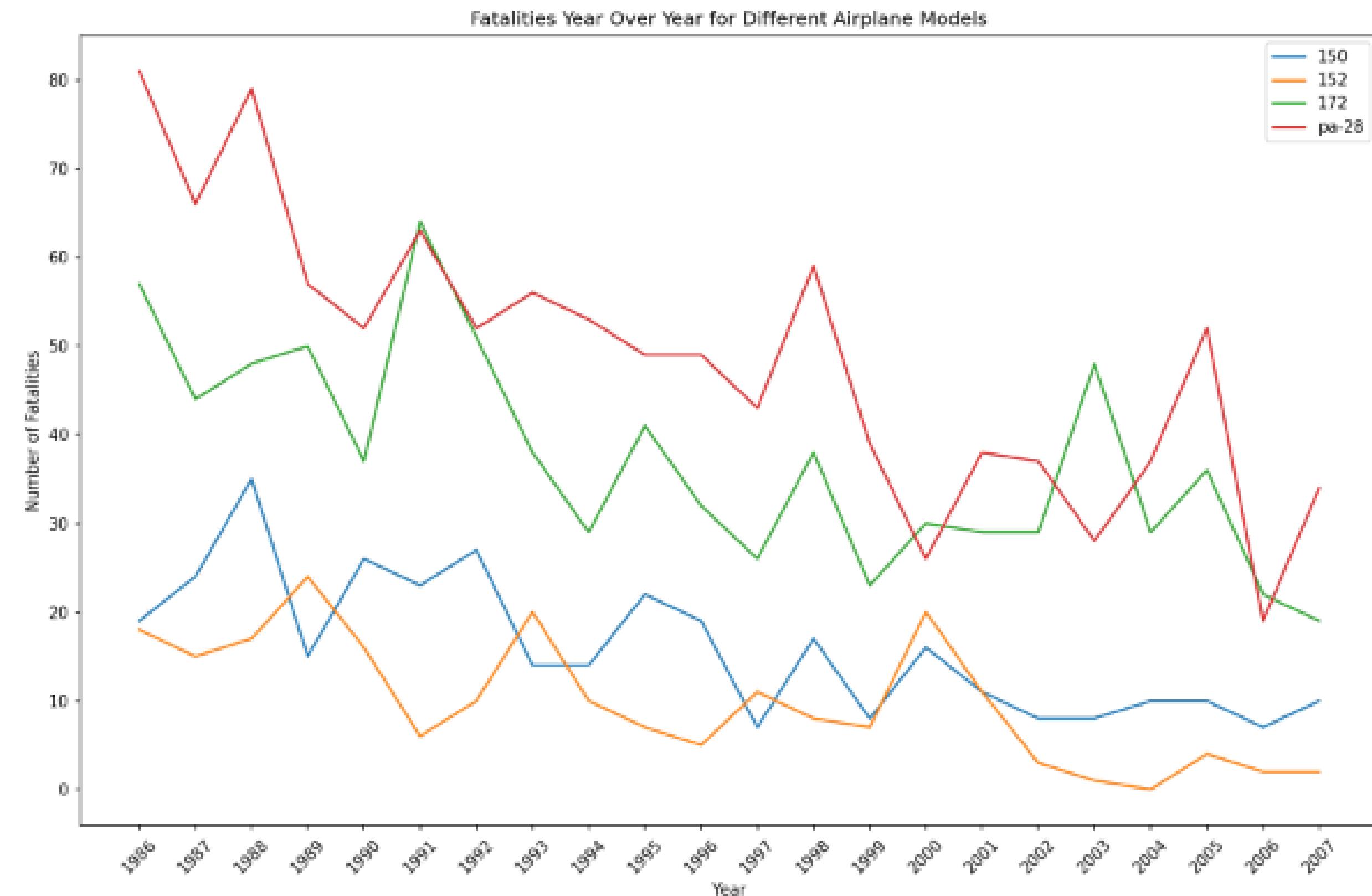
DATA ANALYSIS

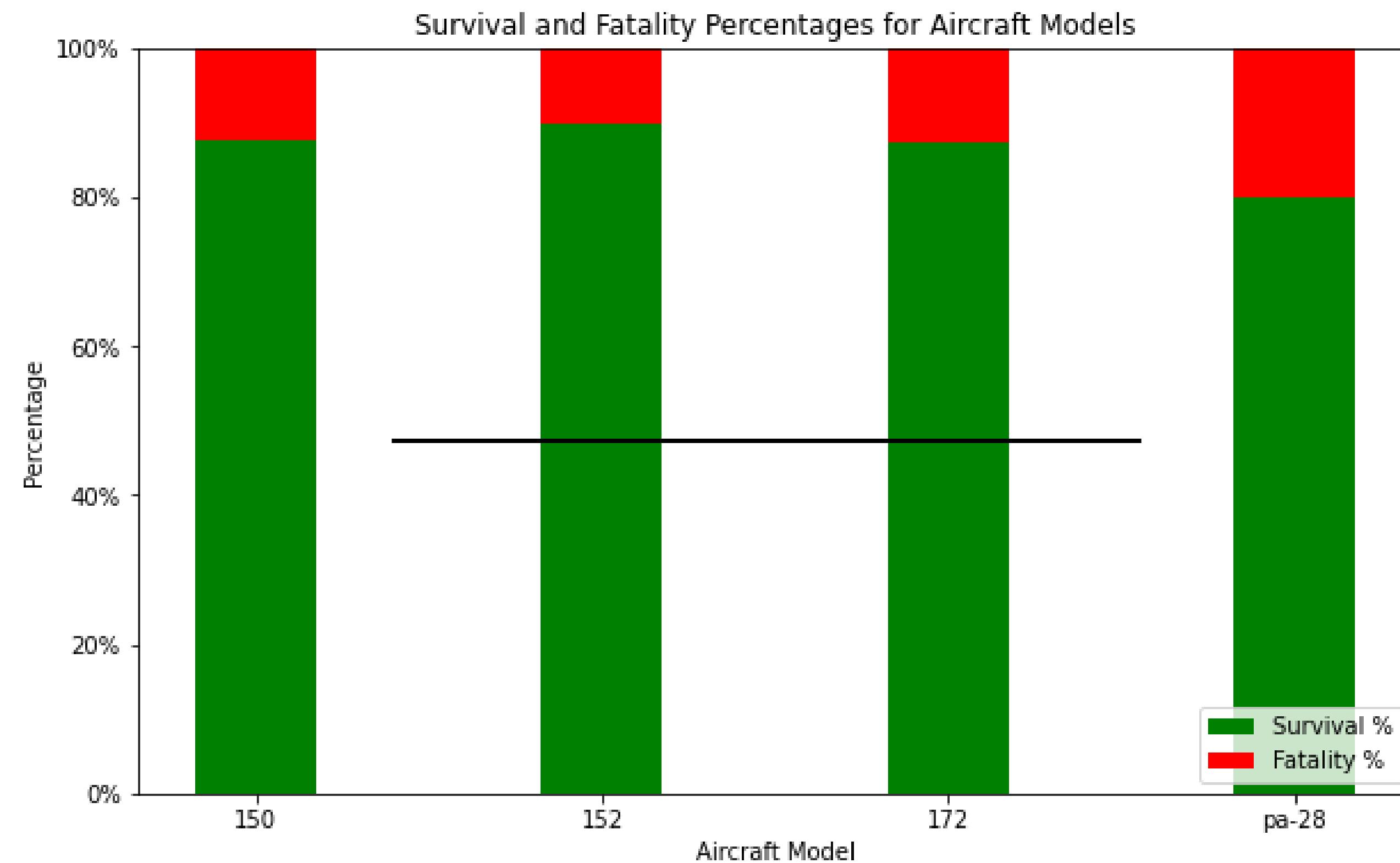


Framework: Start to finish

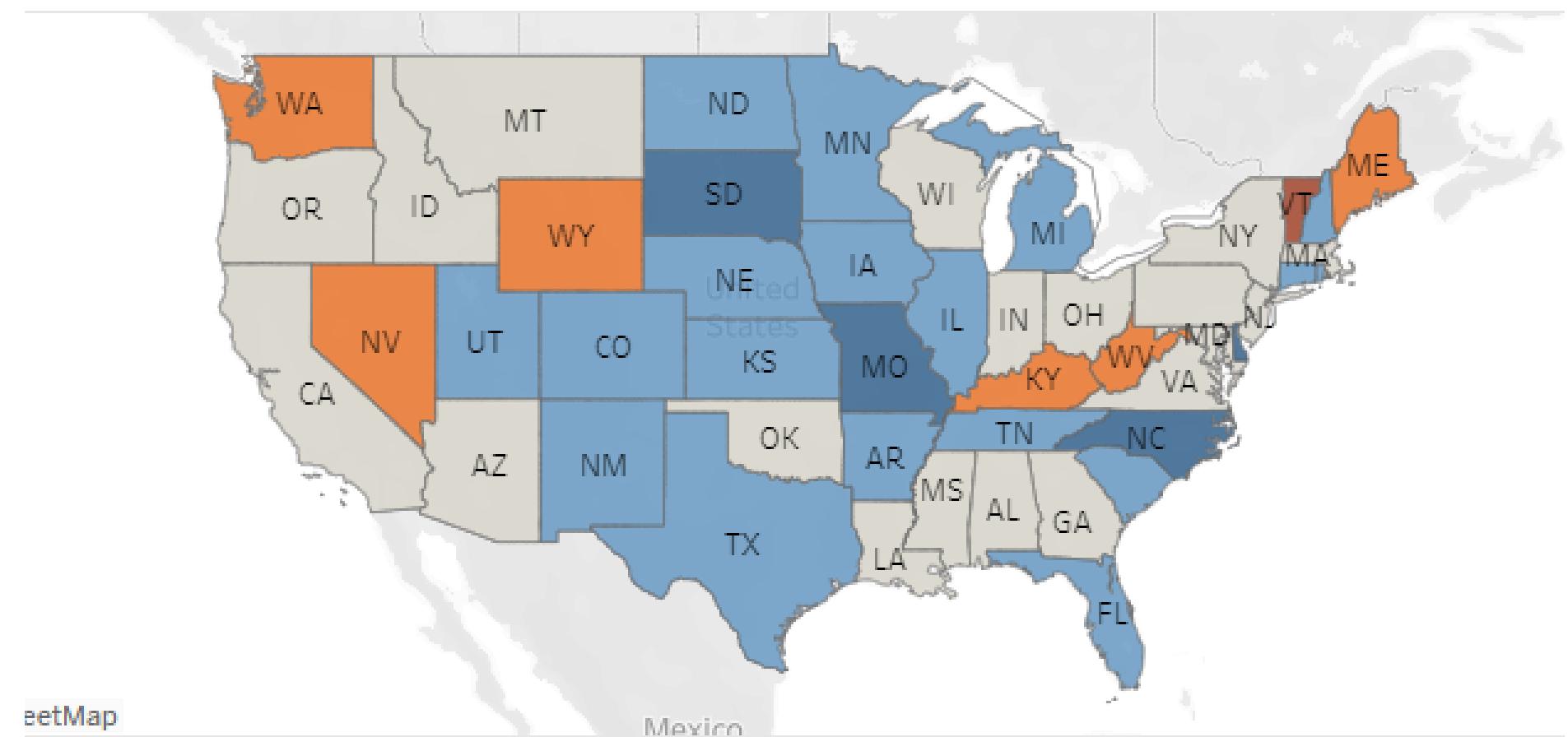
- Source: Kaggle: NTSB aviation accident data set
- Data frame included 88889 entries with 31 columns
- Narrowed down the dataset based on the following criteria:
 - US only
 - The four airplane models of interest.
 - Exclude flight phases not dangerous in nature (e.g. Taxi or Standing)
 - Purpose of flight was instructional or personal.
 - Contains information about how many people were involved in the incident.
- Dropped columns not applicable to framework
- Final count came to 9213 records involving the four models of interest.

172	3315
pa-28	2499
150	1919
152	1480





Avg Number of Deaths by State

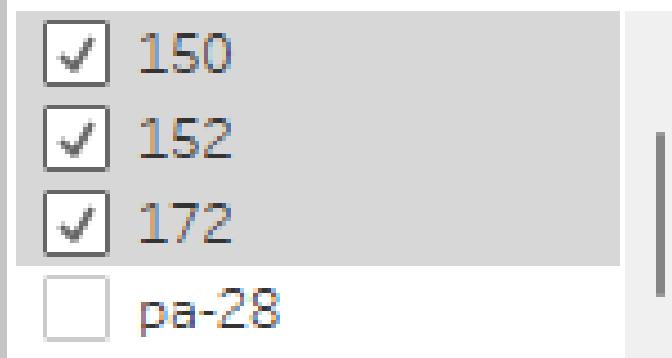


Avg. Deaths

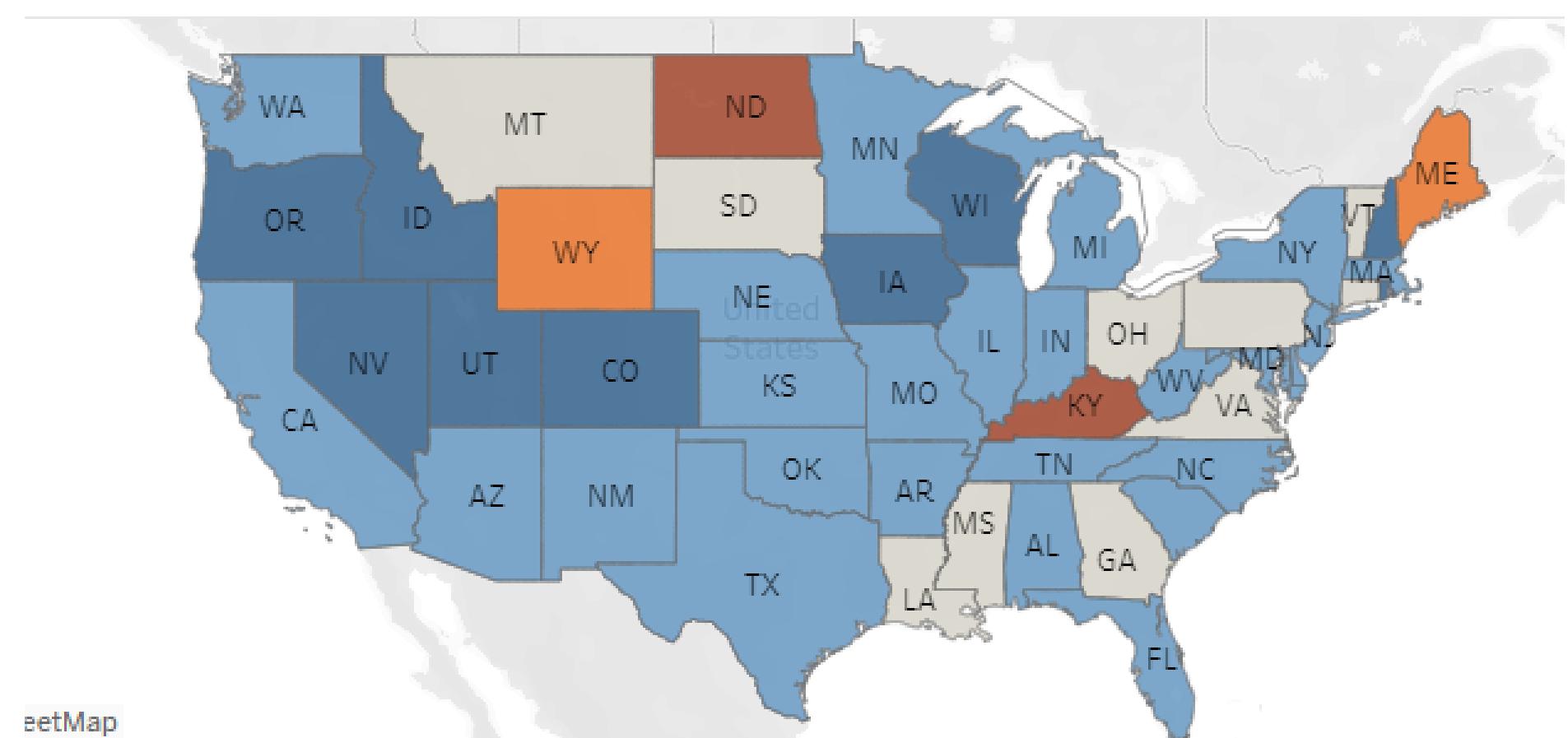


0.0000 0.5000

Model New



Average Number of Survivors by State



Avg. Survivors



1.0889 1.6724

RESULTS

- Cessna 172 deemed to be safest overall out of 4 listed planes
- Decrease in accidents year over year
- As technology advances, accidents decrease
- Spring and Summer is when most accidents occur
- Portions of the Southeast and Midwest deemed to be most ideal locations



NEXT STEPS

Determine
location of school

STEP 1



STEP 2

Determine the
amount to invest
in planes and
overhead costs

Decide what months
or season would
make the most sense

STEP 3



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