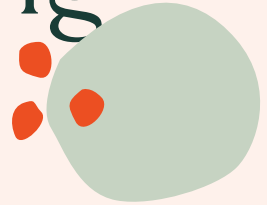


# BLACK GROUP CORPORATE

Investors in every aspect



# Business Understanding



## BRIEF DESCRIPTION

We as Black Group have decided to expand our investment into the air space industry. We want to venture in the public and private air sectors. From boeings to helicopters

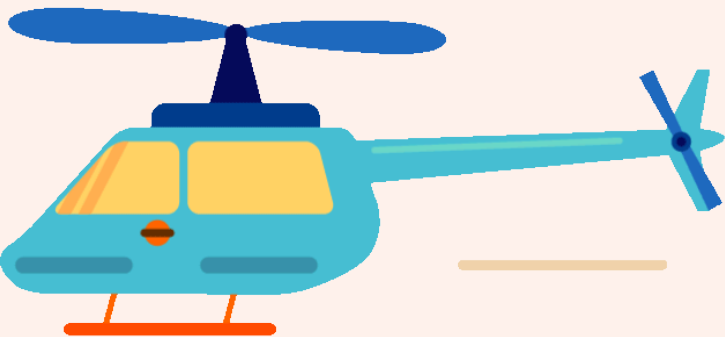


# PROBLEM STATEMENT



## OBJECTIVE

I am looking at data of previous air crashes to see which had makes and models had the least damages and injuries.





An aerial photograph of a city and a river, with the wing and tail of a commercial airplane in the foreground. The sky is filled with large, dramatic clouds, and the sun is low on the horizon, creating a warm, golden light. The city below is a mix of green spaces and urban development, with a river winding through it. The airplane's wing is white with a purple and yellow tail fin.

# DATA

Data from Kaggle

AviationData from the NTSB of accidents from 1962 to 2023

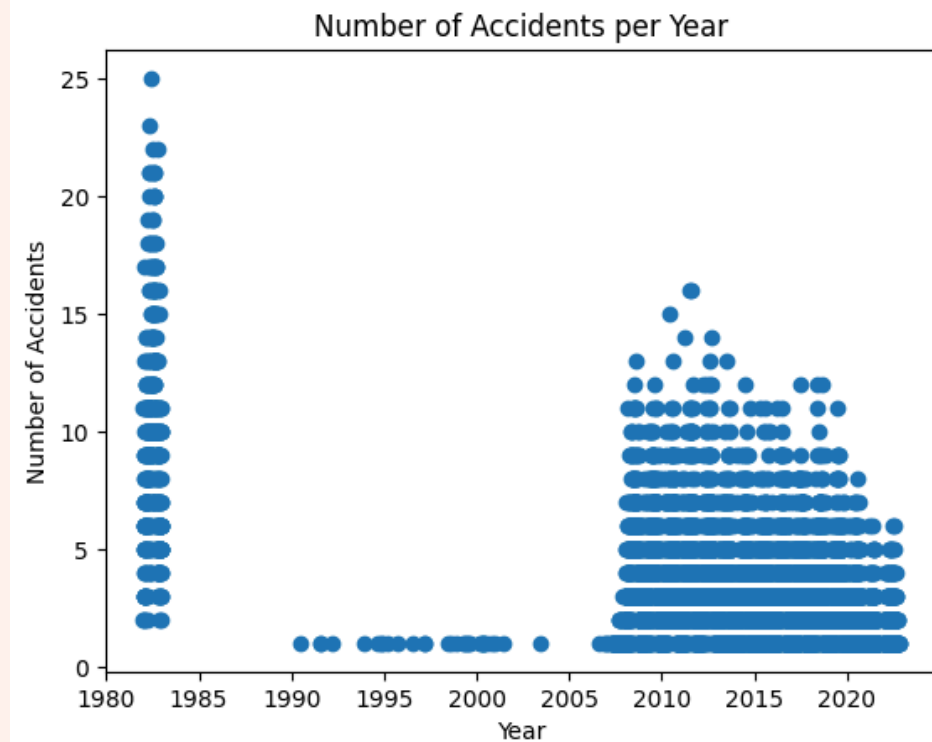
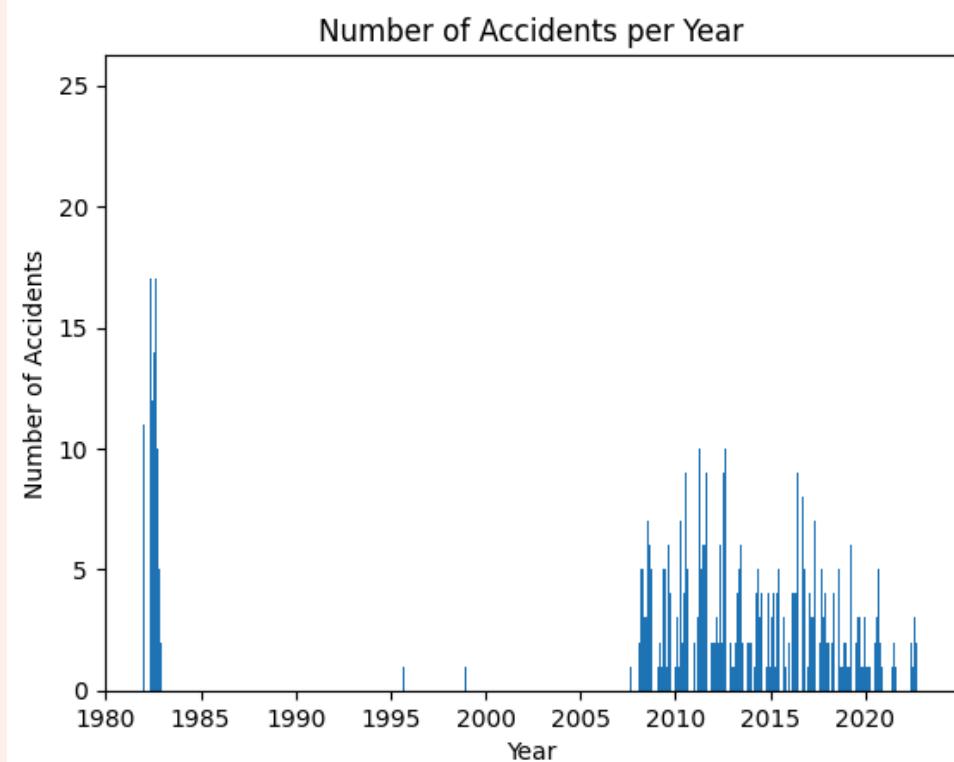


# DATA ANALYSIS

Here will be the results of the  
completed analysis.

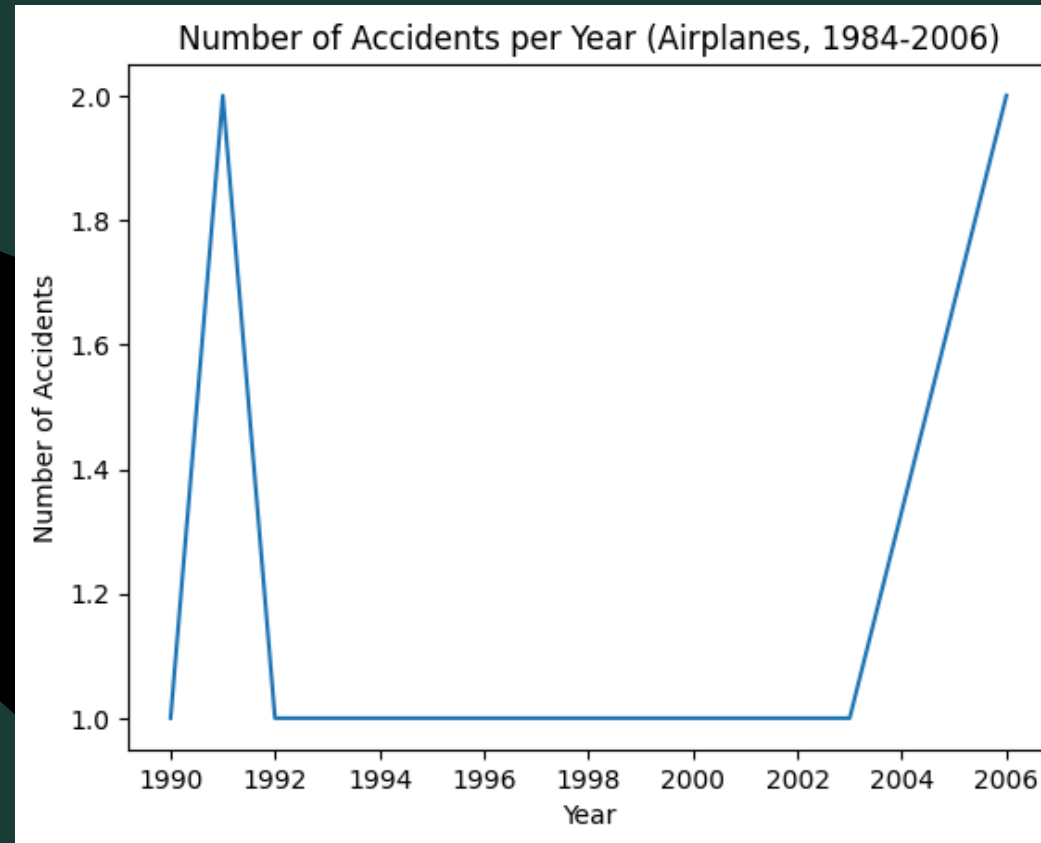


This research shows that from around 1984 to around 2007 the number of accidents were fewer but from then onwards we see the airspace accidents were kinda crazy.

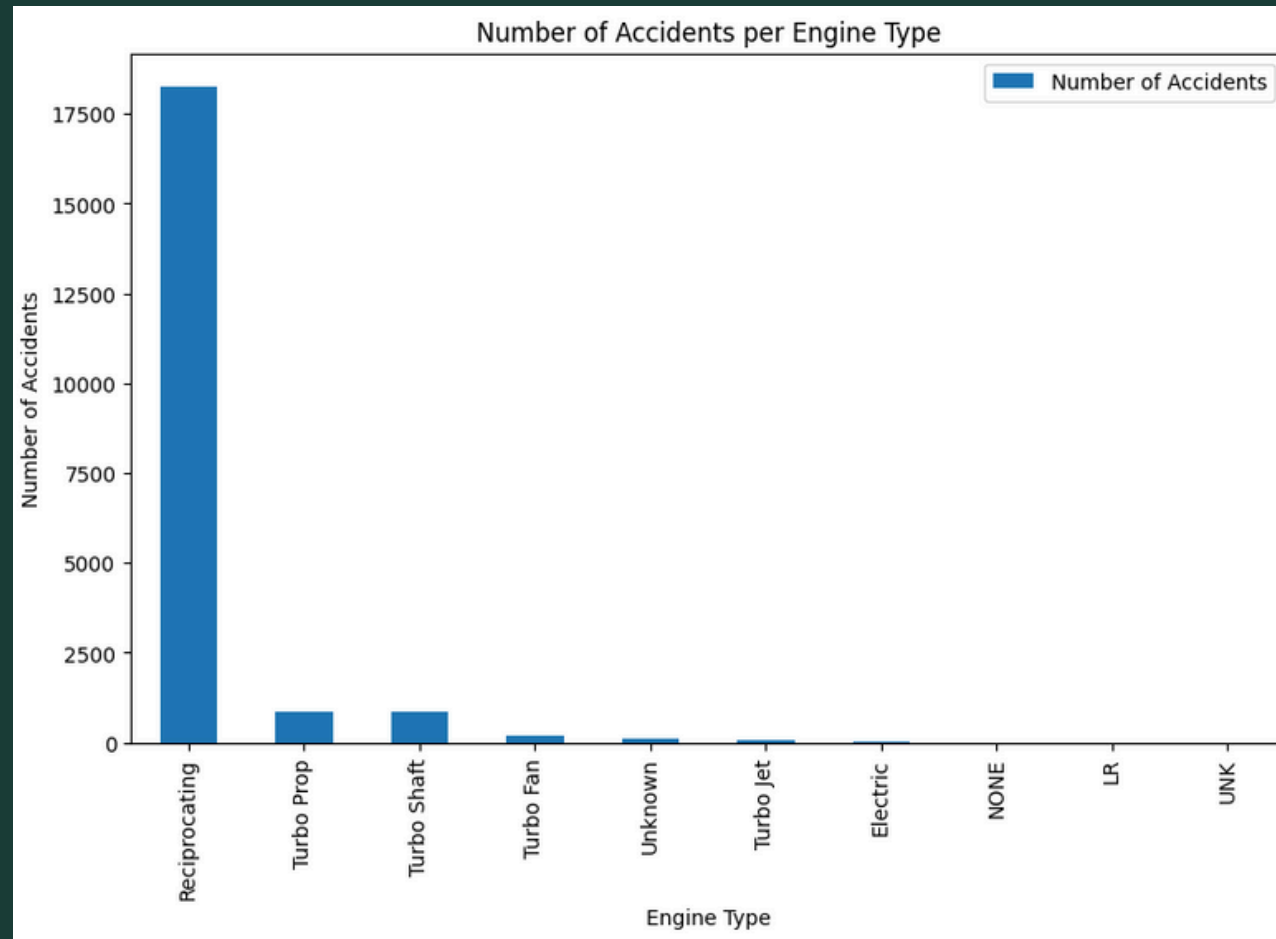


This is how the graph of some of the accidents in the duration looked like. The following were planes used during that period.

- Piper - PA-28-180
- Bellanca - 7GCBC
- Piper - PA-18
- Fokker - 28-4000
- Piper - PA-32
- McDonnell Douglas - MD-88
- Piper - PA-28-181
- Cessna - 182H
- Aircraft Mfg & Dev. Co. (amd) - CH601XL SLISA
- Mooney - M20R

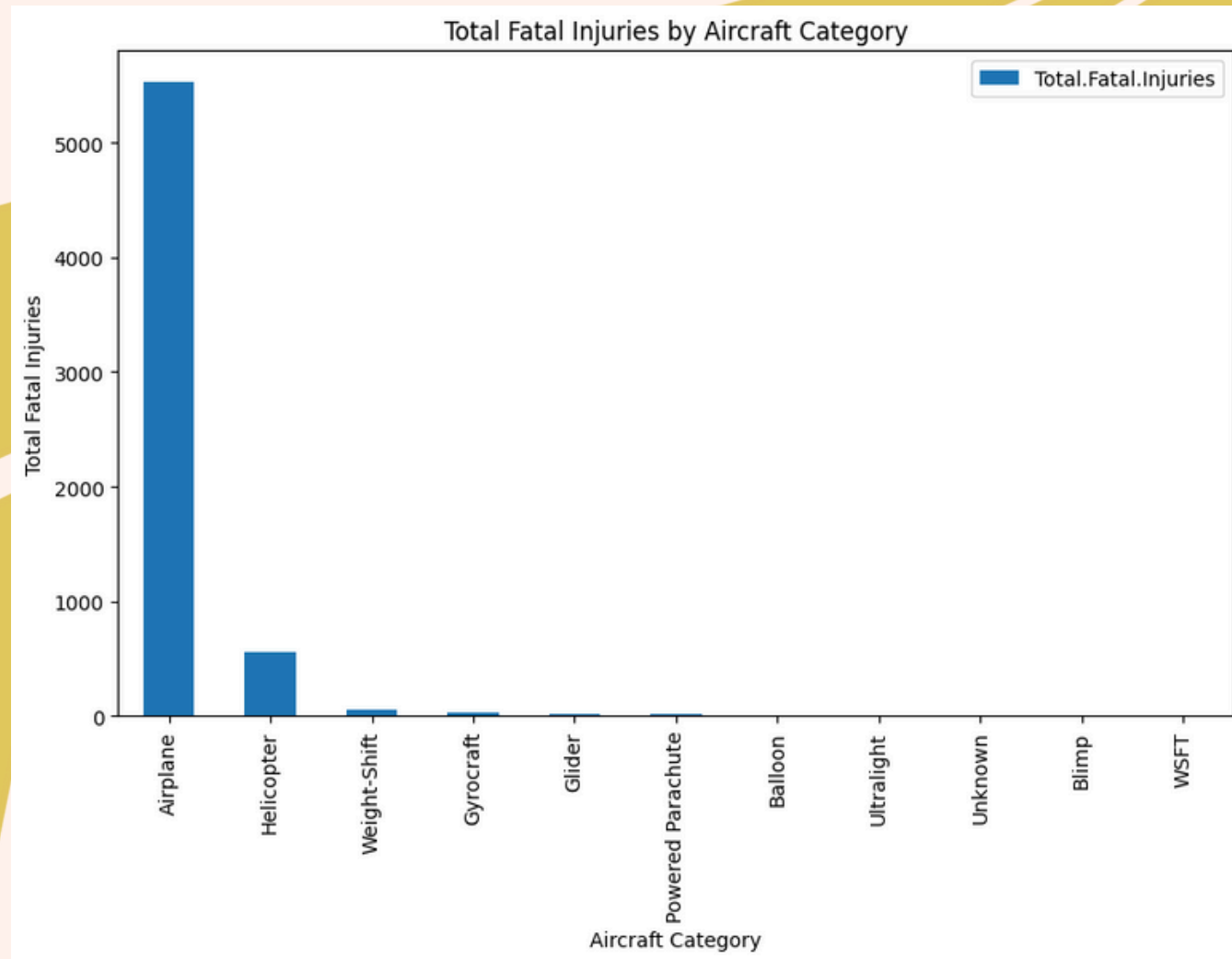


From the graph we can see that planes with reciprocating engine types were involved in the highest number of accidents. For future reference we should avoid buying planes with reciprocating engines





From the observation we can see airplanes have most number of injuries, because they may be the most common air travel option. We will have to be keen on the type of airplanes we buy to avoid fatalities with high numbers such as this one.

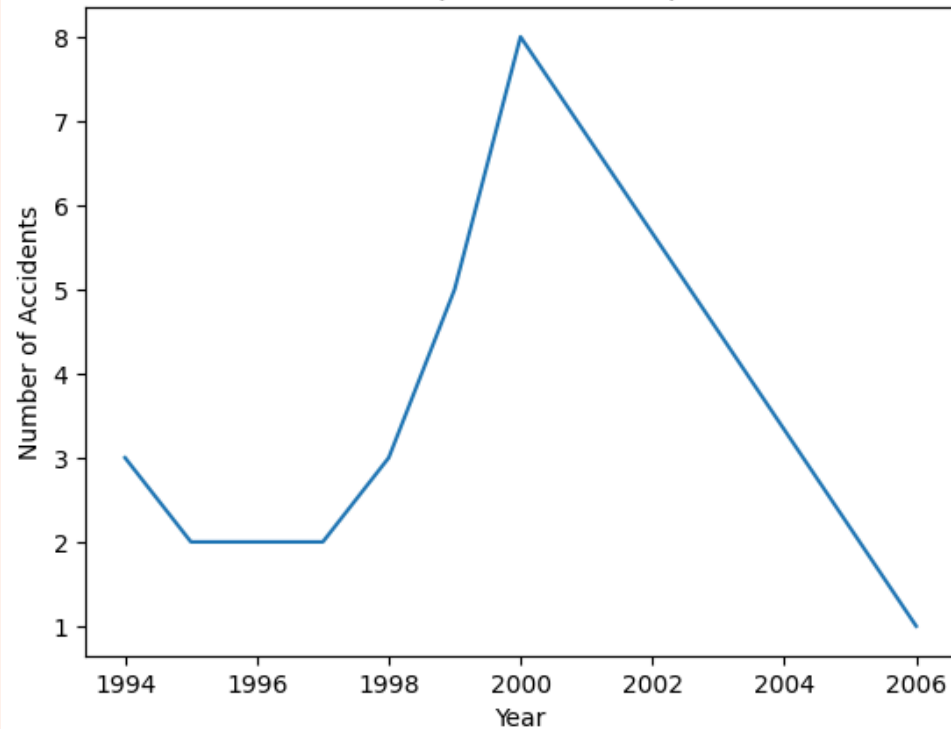


# HELICOPTERS

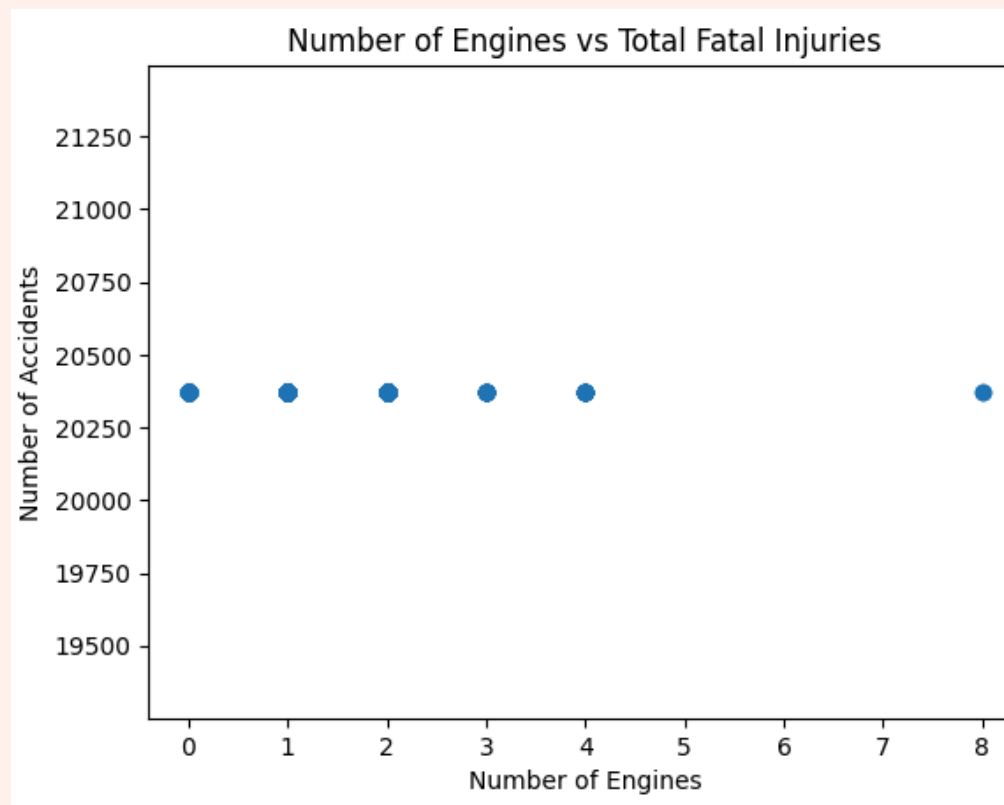
Helicopters don't have a lot of accidents. From the graph the helicopters from 1984-2006 were;

- Aerospatiale - SA316B
- B??lkow - BO-105S
- Agusta - A109A II
- Bell - 230
- Aerospatiale - AS-355F
- Mbb - BO-105S
- Eurocopter - AS350BA
- Bell - 222
- Aerospatiale - AS-350-BA
- Mbb - BO-105CBS-4
- Bell - 222UT
- Sikorsky - S-76A
- Mbb - BK-117-B2
- Bell - 206L
- Bell - 412
- Bell - 222U
- Eurocopter - BK117-A3
- Eurocopter - BK-117-A4
- Eurocopter - AS350B2
- Bell - BH-222-U
- Aerospatiale - AS-355-F2
- Bell - 206-L3
- McDonnell Douglas Helicopters - 369E


Number of Accidents per Year (Helicopter, 1984-2006)



as seen and as per contrary opinion the number of engines on a plane does not affect the number of accidents, so number of engines shouldn't be a factor to consider when buying an aircraft



# Recommendations

- We should look into the airplanes category because a lot of accidents occur in that category.
  - We should invest more in helicopters first, as they not accident prone compared to airplanes.
  - We should avoid aircrafts with a reciprocating engine as they are more prone to accidents.
  - We should look into cessna make airplanes as they offer a wide variety of airplanes , some which aren't accident prone
  - We should always keep investigating as technology advances.
- 

# INFO



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