

# AVIATION ACCIDENT ANALYSIS

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# BUSINESS UNDERSTANDING

## ***BUSINESS PROBLEM***

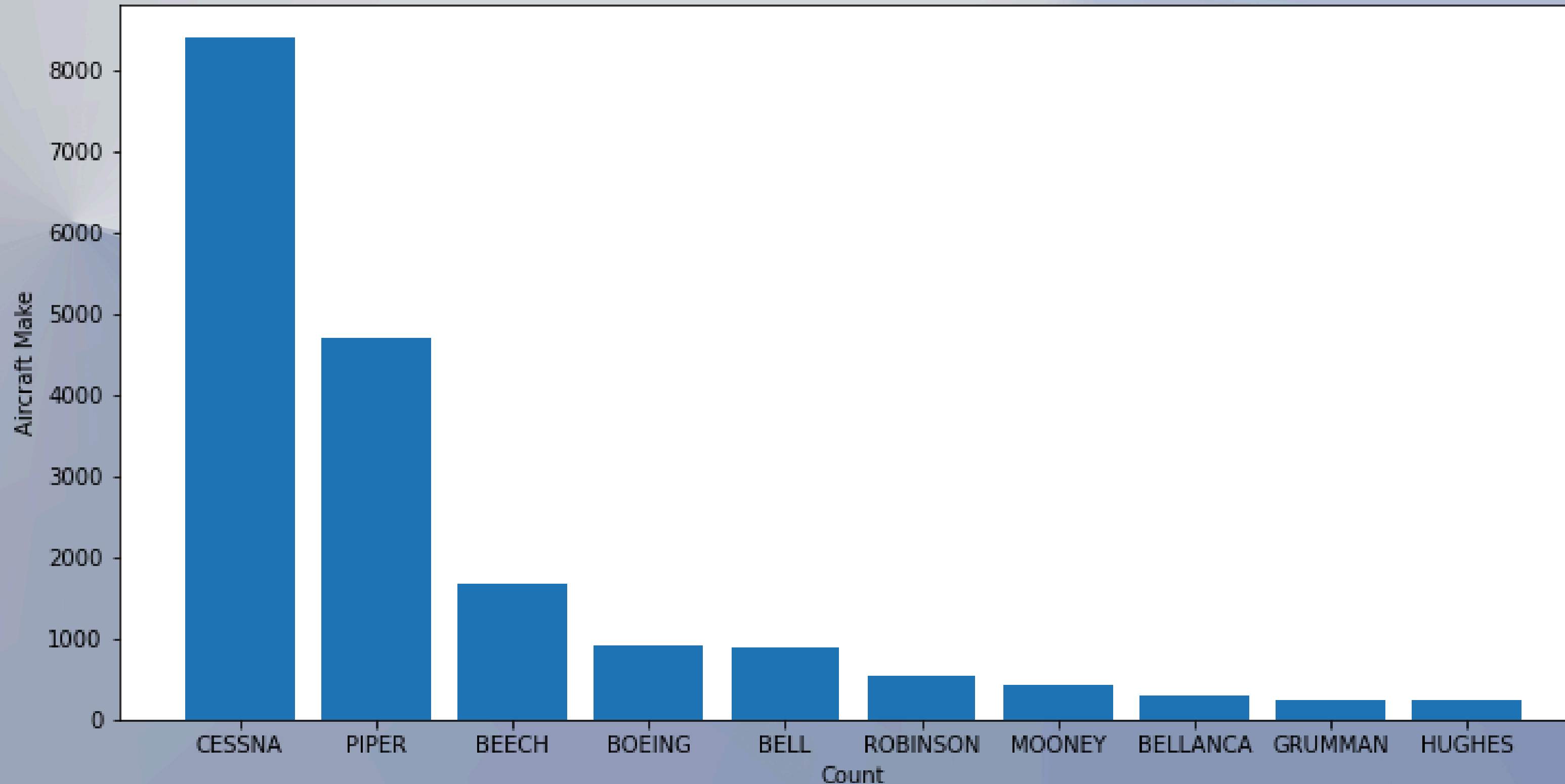
The company is expanding into the aviation industry and needs to identify the safest aircraft models to minimize risks.

## ***OBJECTIVE***

Analyze aviation accident data to determine the safest Aircraft makes and provide data-driven recommendations.

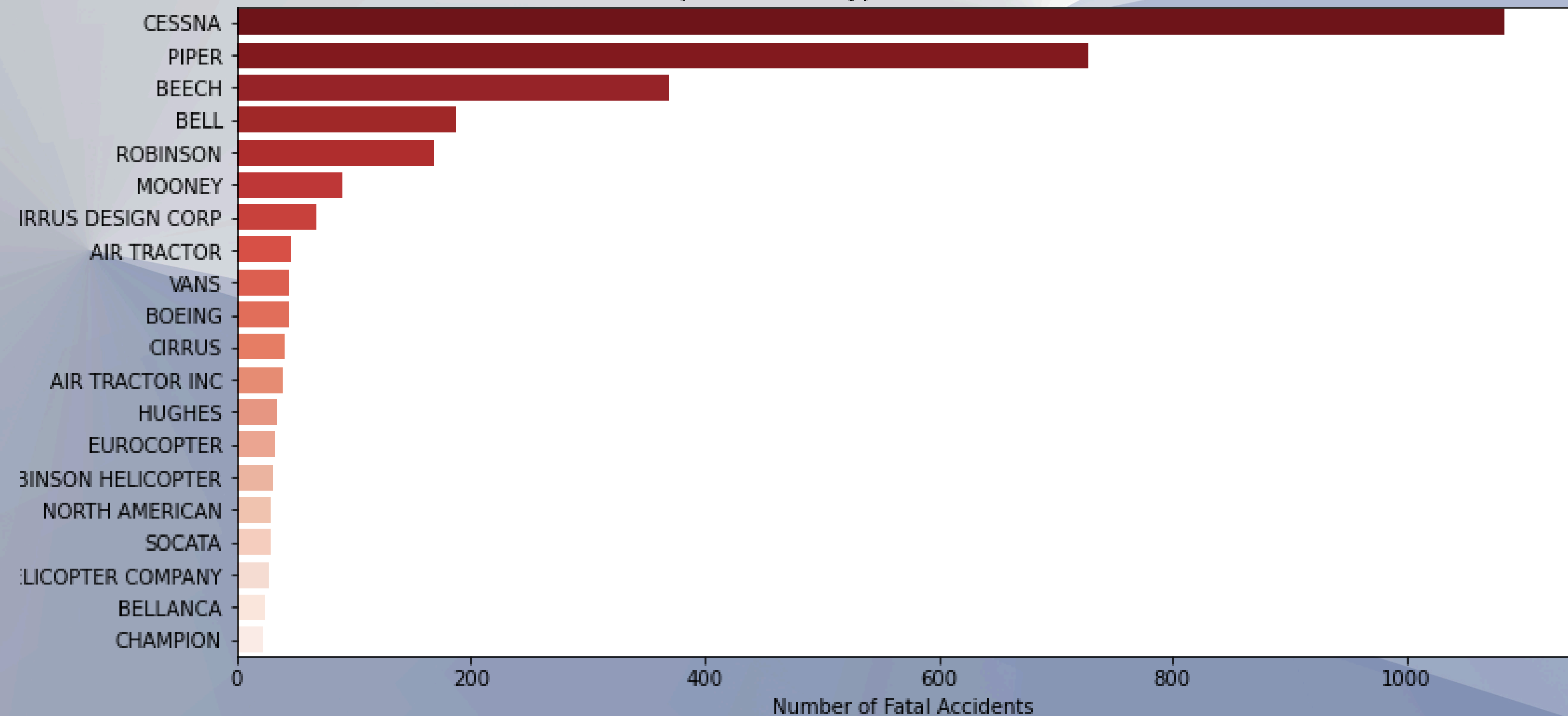
# RESEARCH QUESTION 1 : WHICH IS THE MOST PREFERRED AIRCRAFT MAKE

Most Frequently Used Aircraft

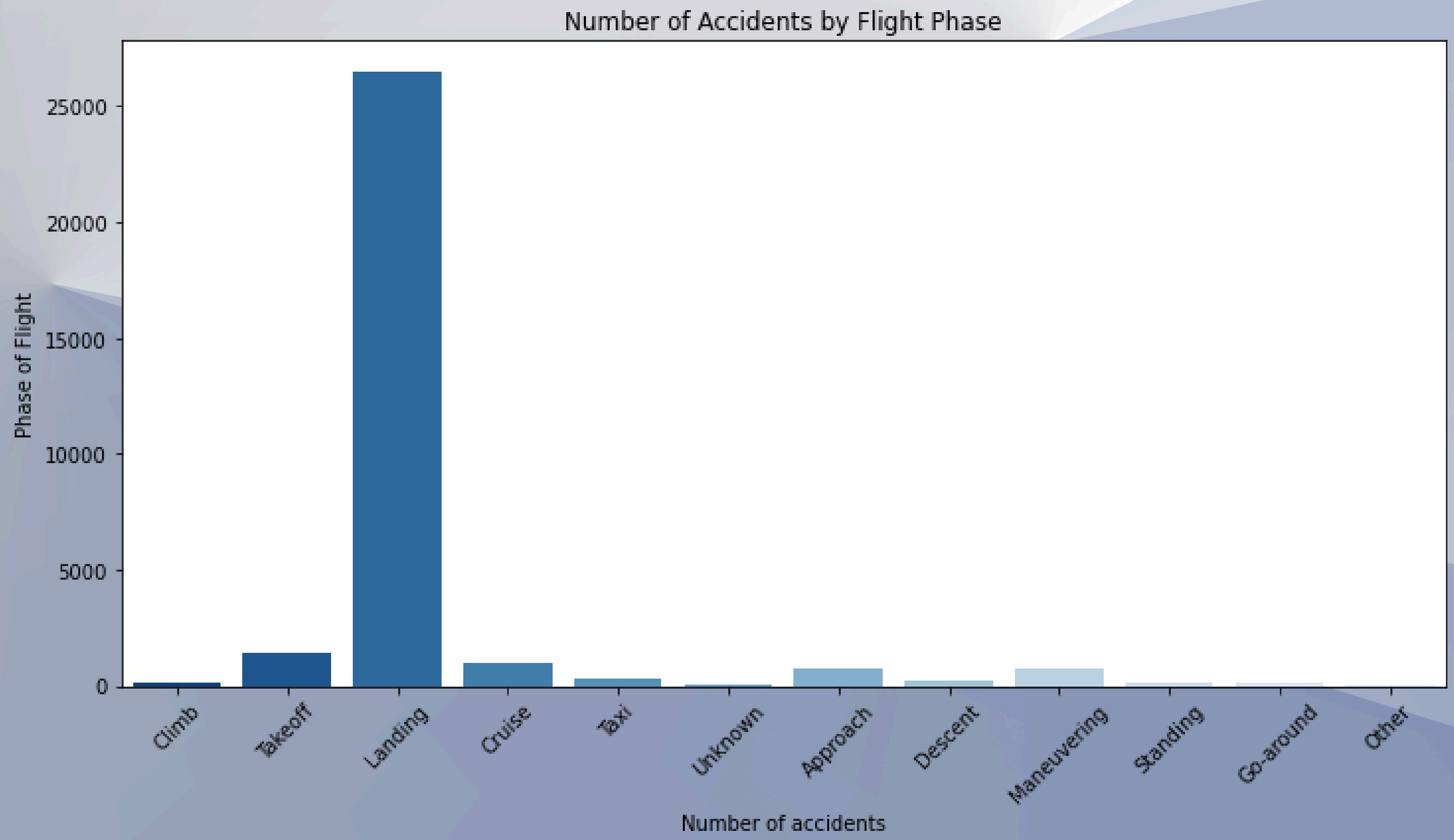


# RESEARCH QUESTION 2 : WHICH AIRCRAFTS HAVE THE HIGHEST AND LOWEST FATAL ACCIDENTS

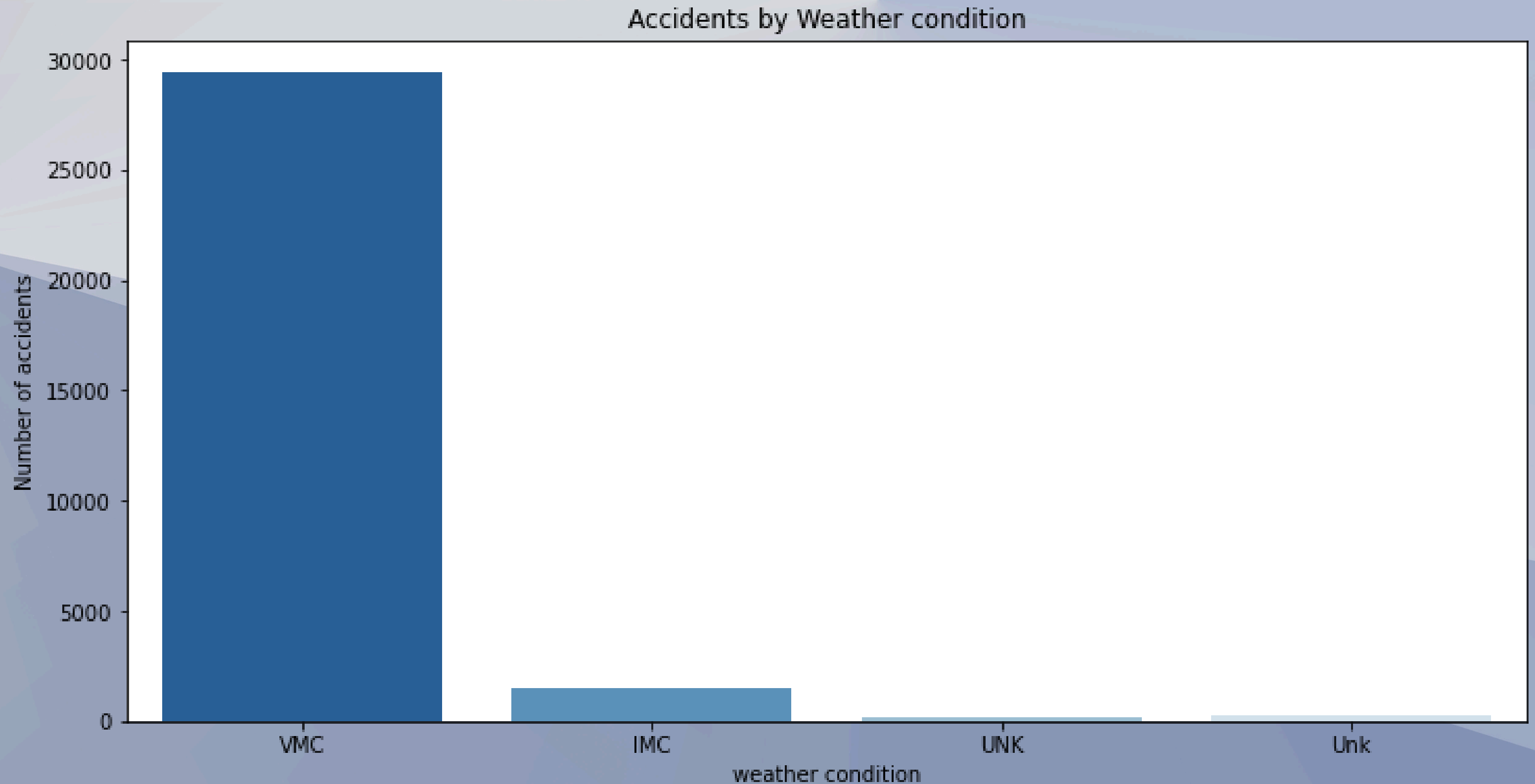
Top 10 Aircraft Types with Fatal Accidents



# RESEARCH QUESTION 3: WHICH FLIGHT PHASE HAS THE HIGHEST ACCIDENT RISK



# RESEARCH QUESTION 4 : DOES WEATHER INFLUENCE AVIATION



# RECOMMENDATIONS

- Invest in makes like Bell, Grumman and Mooney with low accident rates .
- Improve pilot training and maintenance checks to reduce risks during landing and takeoff.
- Continuously update safety strategies based on emerging data.

# CONCLUSION

- Cessna and Piper have the highest number of accidents. However, this does not necessarily mean they are the most dangerous, higher usage eventually leads to more recorded incidents.
- Bell, Grumman, and Mooney have lower accident numbers which suggest they are lower operational risk. These makes should be considered for purchase.



The background features a complex geometric pattern of overlapping, semi-transparent triangles and polygons. These shapes radiate from two primary points, one on the left and one on the right, creating a starburst or sunburst effect. The color palette is diverse, including shades of blue, purple, green, yellow, and pink, all blended together to create a vibrant, multi-colored background.

**THANK YOU!**