



AVIATION PROJECT DATA ANALYSIS PRESENTATION

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INTRODUCTION



Project overview and its objectives.



Project Objectives.



Aviation Data Analysis.



Data Analysis:

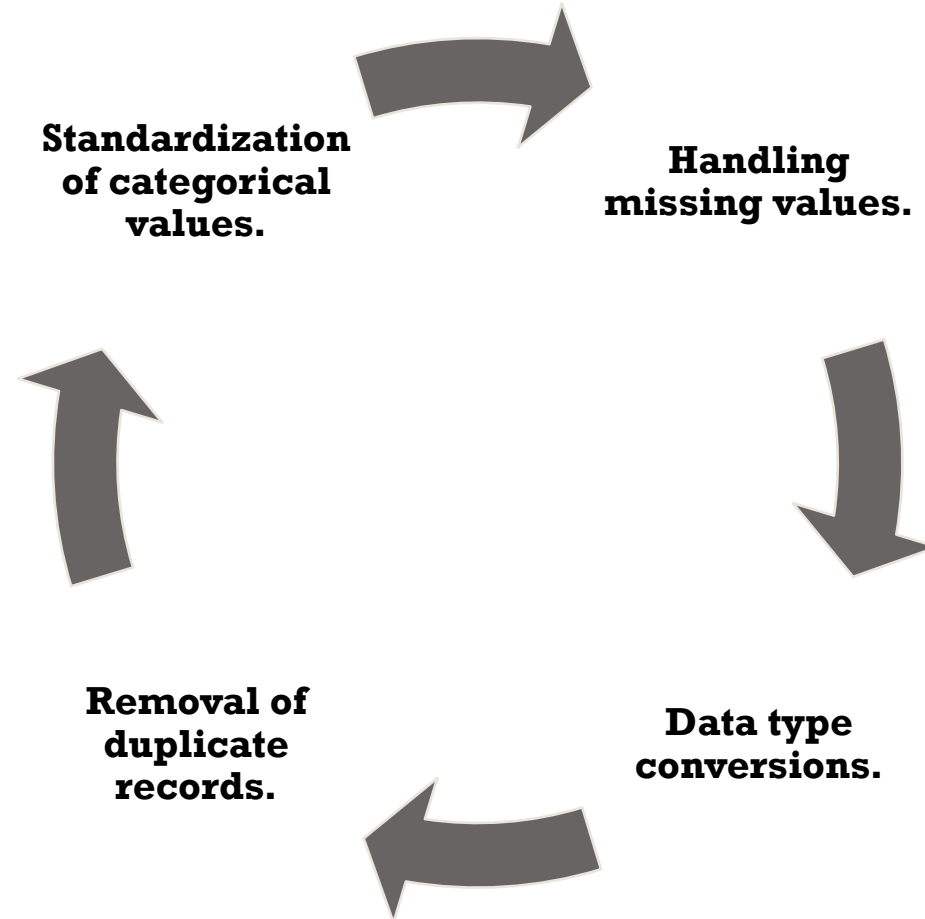
Trends

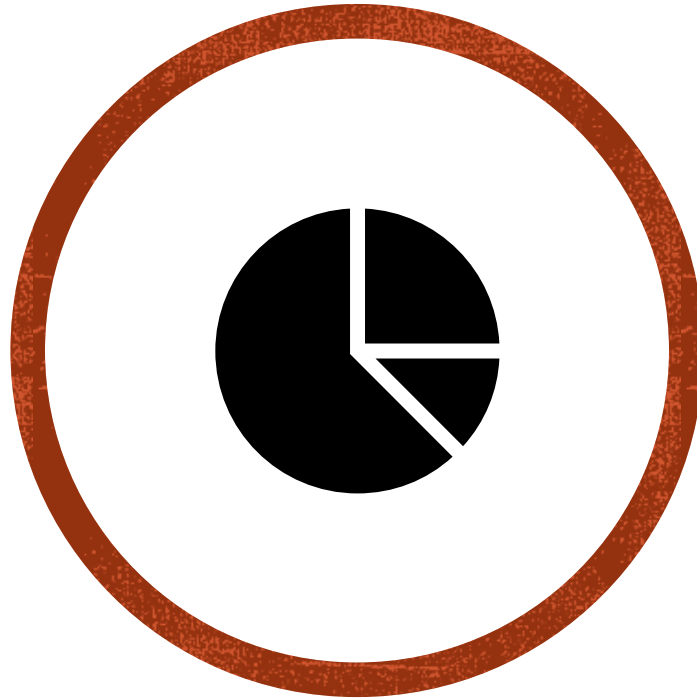
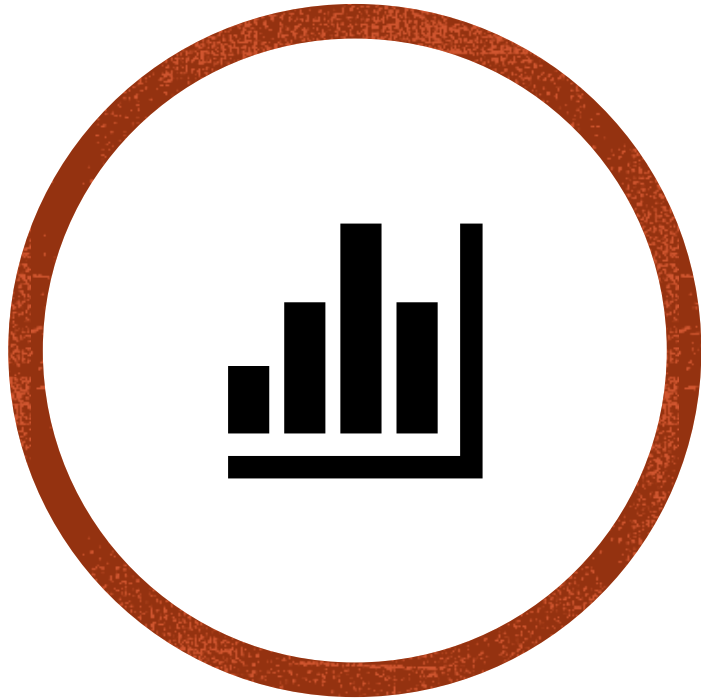
Performance and Safety

Recommendations.



DATA CLEANING AND PREPARATION



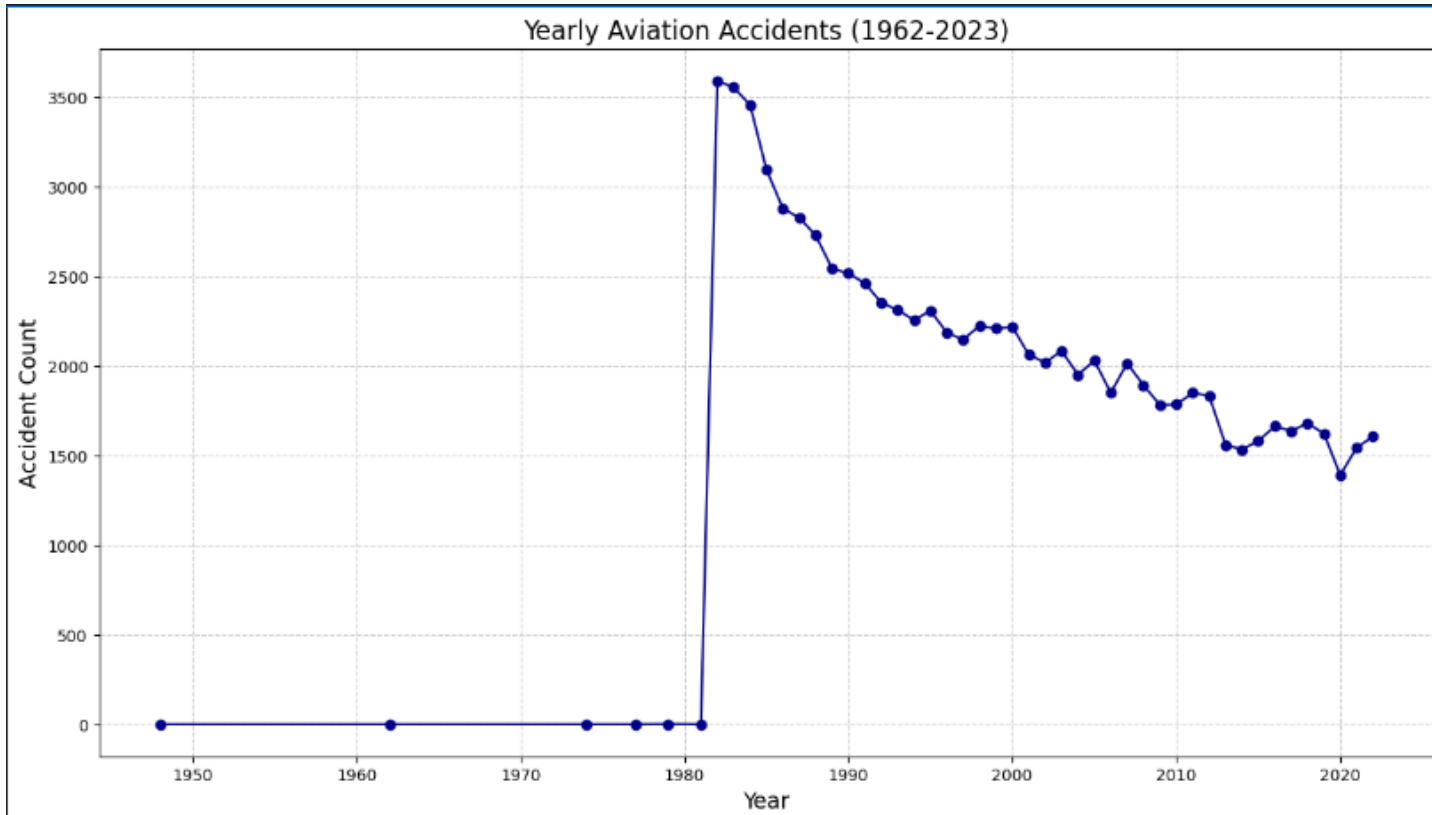


VISUAL REPRESENTATIONS

- Graphs and charts showcasing:
 - Flight trends over time.
- Delay analysis by airline/airport.
 - Incident distribution by type.



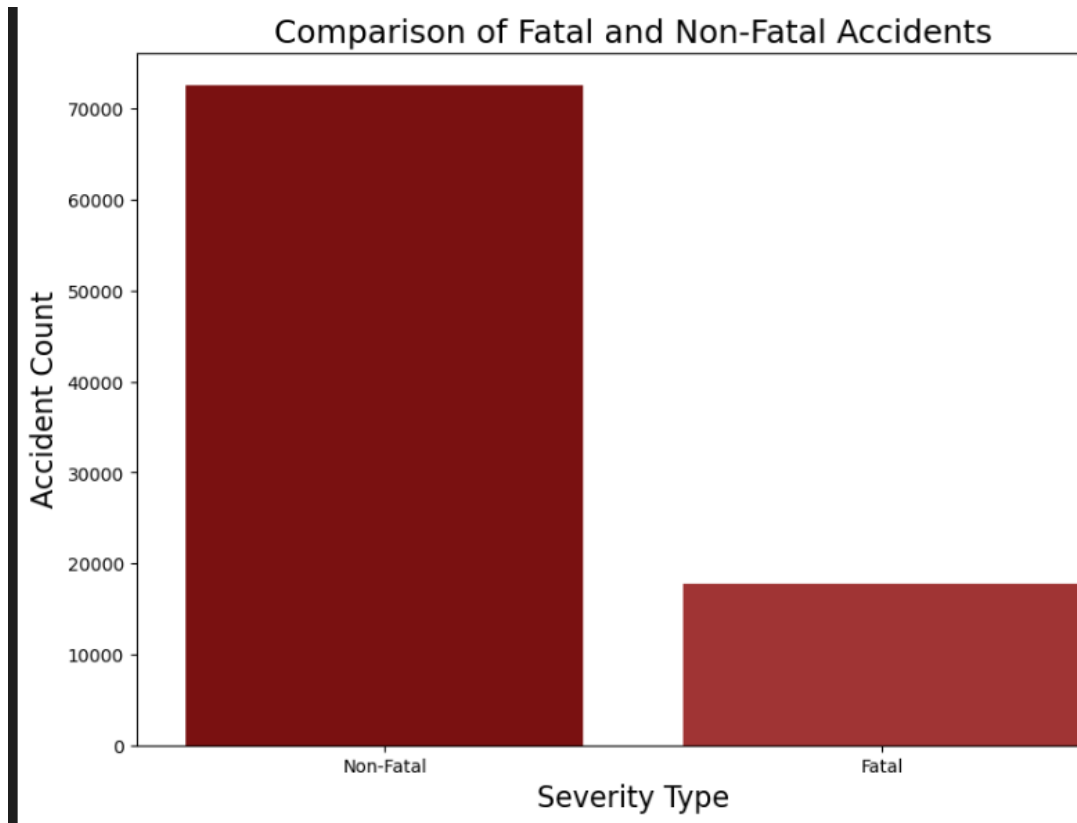
EXPLORATORY DATA ANALYSIS (EDA)



- Accident Trends Over Time:
 - Accidents occurrences from 1962-2023.



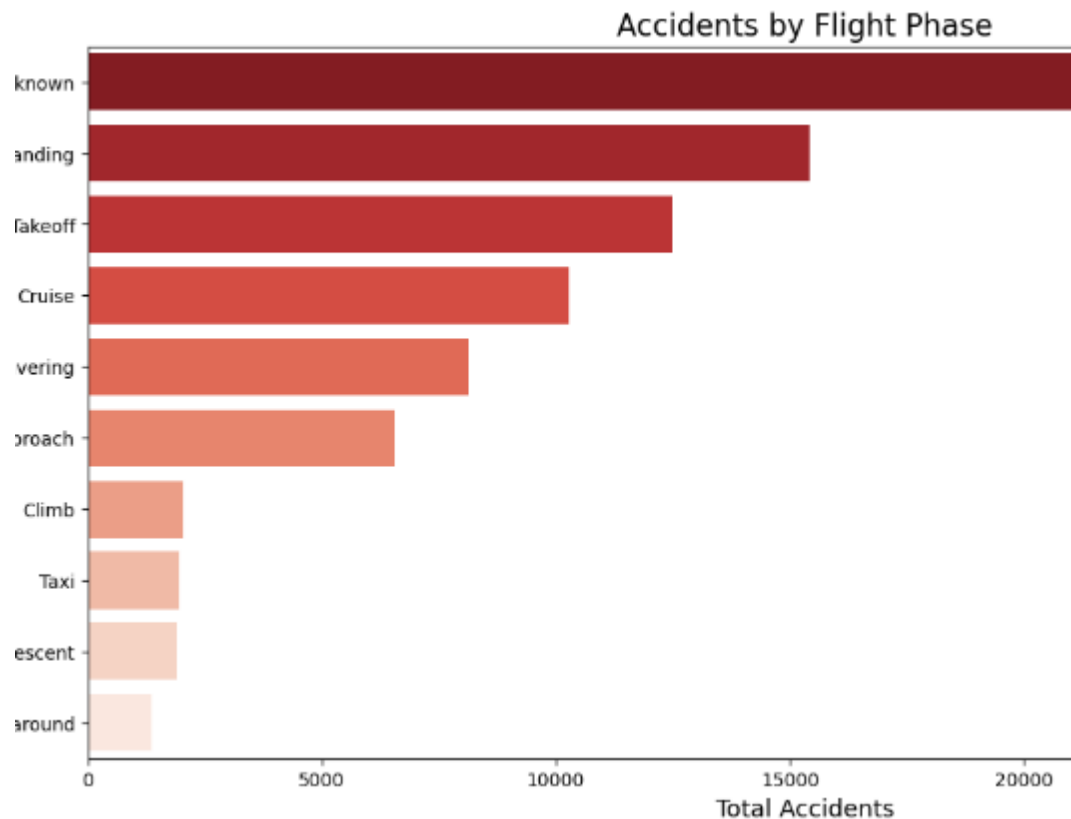
FATAL AND NON-FATAL ACCIDENTS



- Non-fatal Accidents - 72535
- Fatal Accidents – 17813



ACCIDENTS BY FLIGHT PHASE

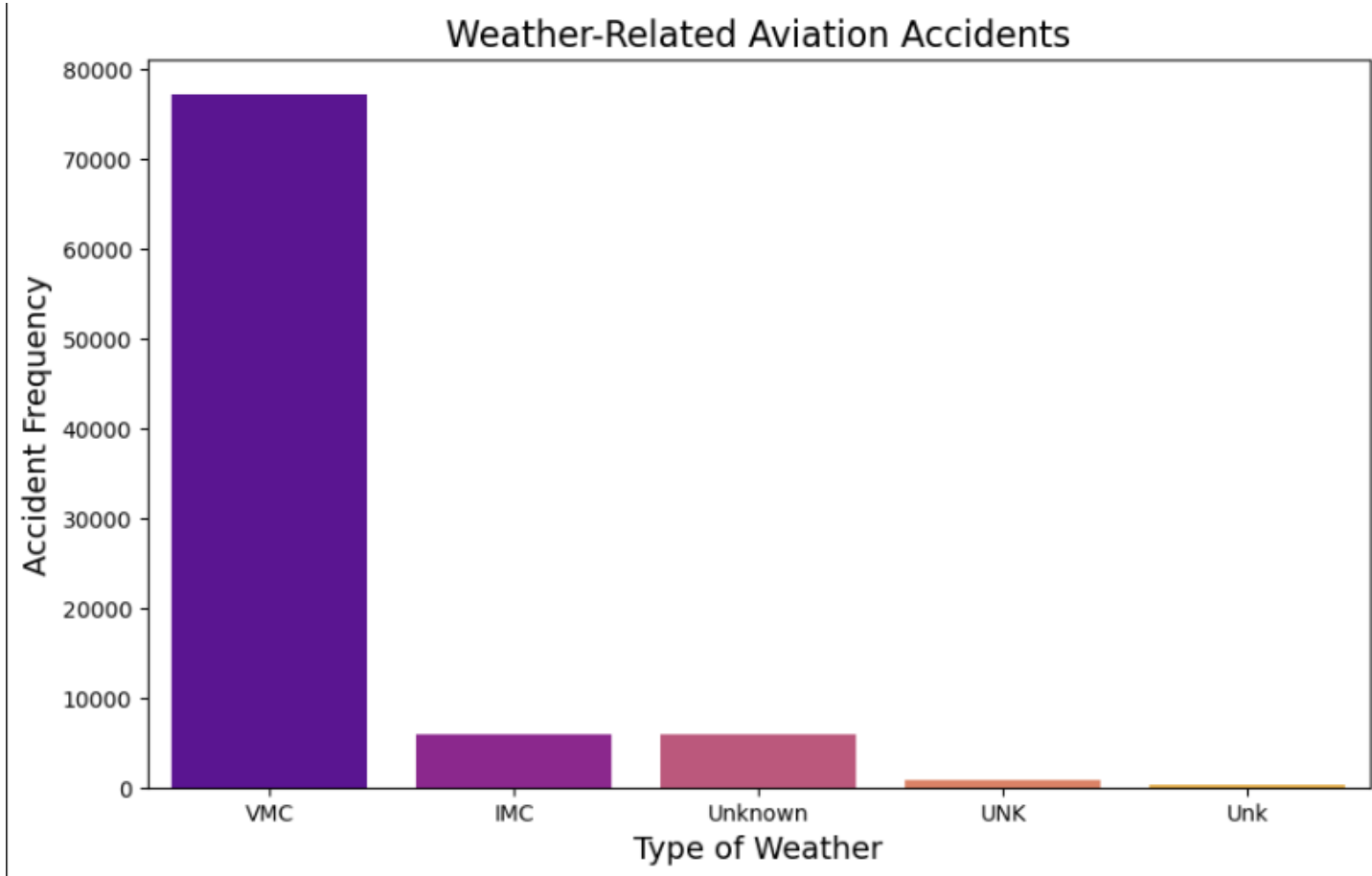


- Most causes of the accidents are unknown while the list causes are by descent and go-around.



WEATHER CONDITIONS

- Weather related aviation accidents





Strategies to reduce flight delays.



Improvements in aviation safety.



Enhancing operational efficiency.



Data-driven decision-making for stakeholders.

RECOMMENDATIONS





Summary of key insights in Aviation.



Importance of data-driven aviation management.



Enhancing predictive modeling for risk assessment.

CONCLUSION

