

Slide 1: Beginning

Overview

- **Project Title:** Analysis of Aviation Accidents Data
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Slide 2: Business Understanding

Stakeholders and Key Business Questions

- **Stakeholders:** Aviation safety regulators, airline operators, safety researchers
 - **Key Business Questions:**
 1. What are the trends in aviation accidents over the years?
 2. Which aircraft categories and regions are associated with the highest risk of accidents?
 3. How severe are the injuries typically resulting from aviation accidents?
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Slide 3: Data Understanding

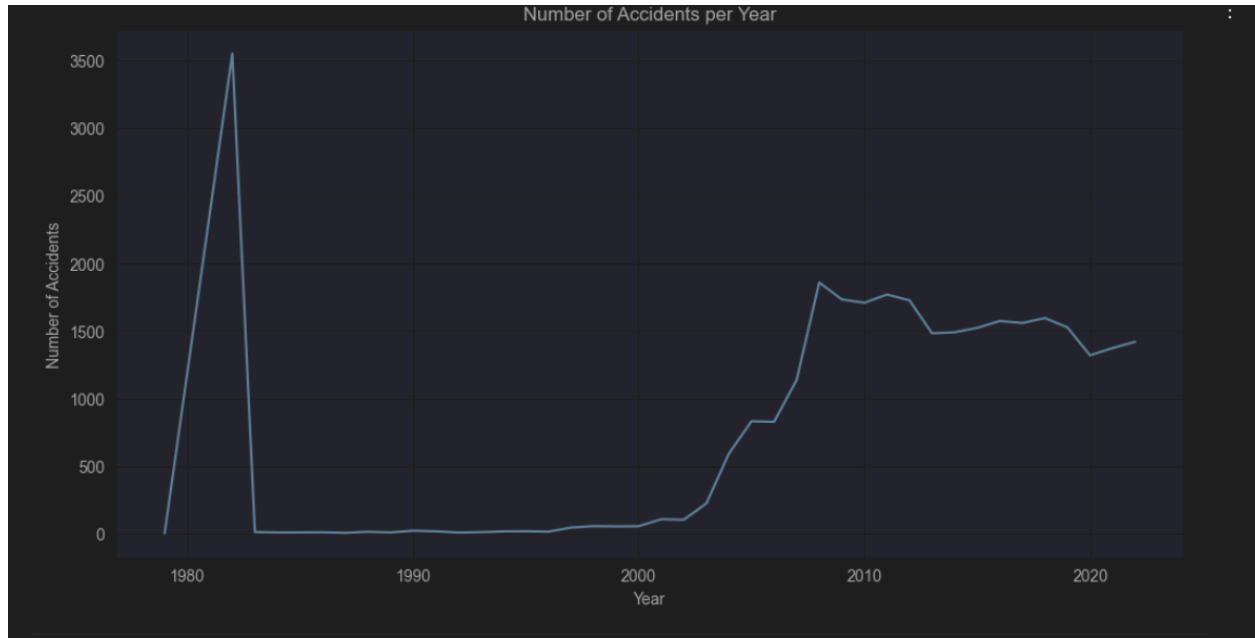
Source of Data

- **Dataset:** Aviation accidents dataset
 - **Contents:** Event ID, Investigation Type, Accident Number, Event Date, Location, Country, Latitude, Longitude, Aircraft details, Injury Severity, etc.
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Slide 4: Data Analysis

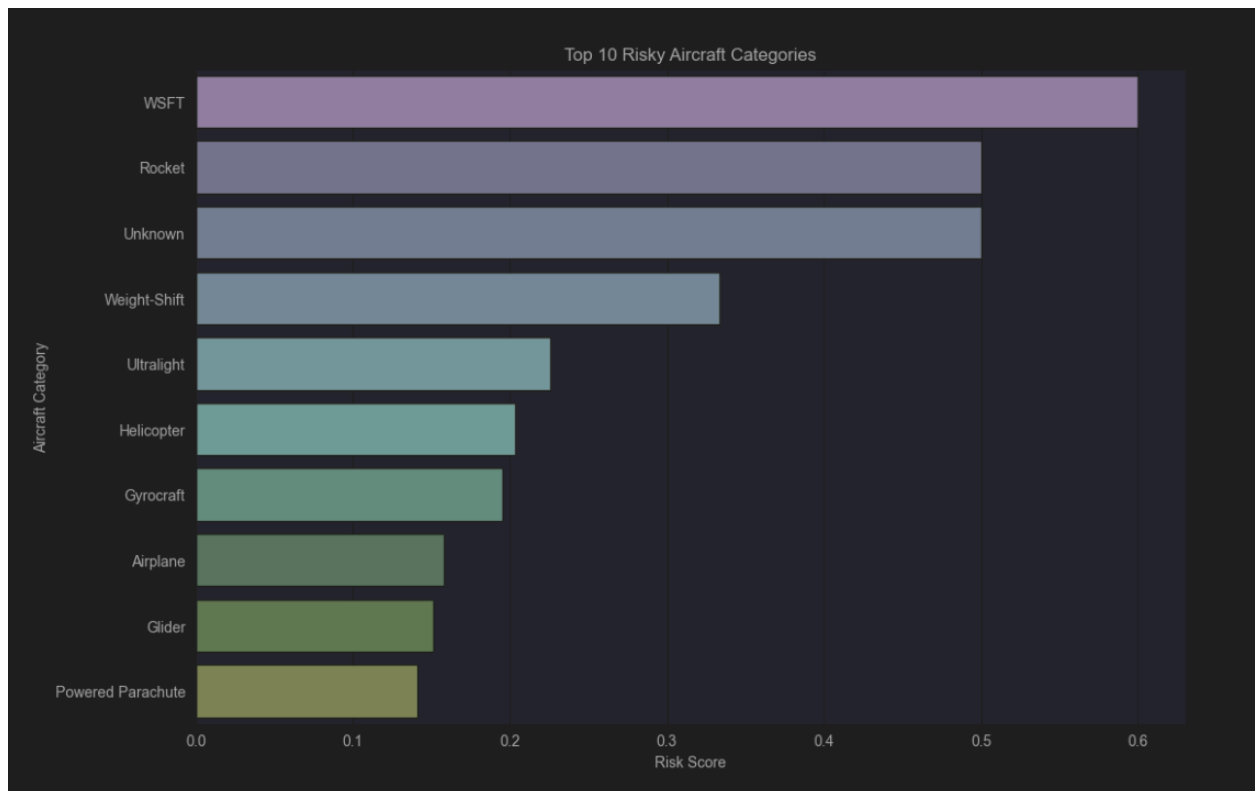
Three Visualizations

1. **Visualization 1: Number of Accidents per Year**
 - Line plot showing the trend in the number of aviation accidents per year.



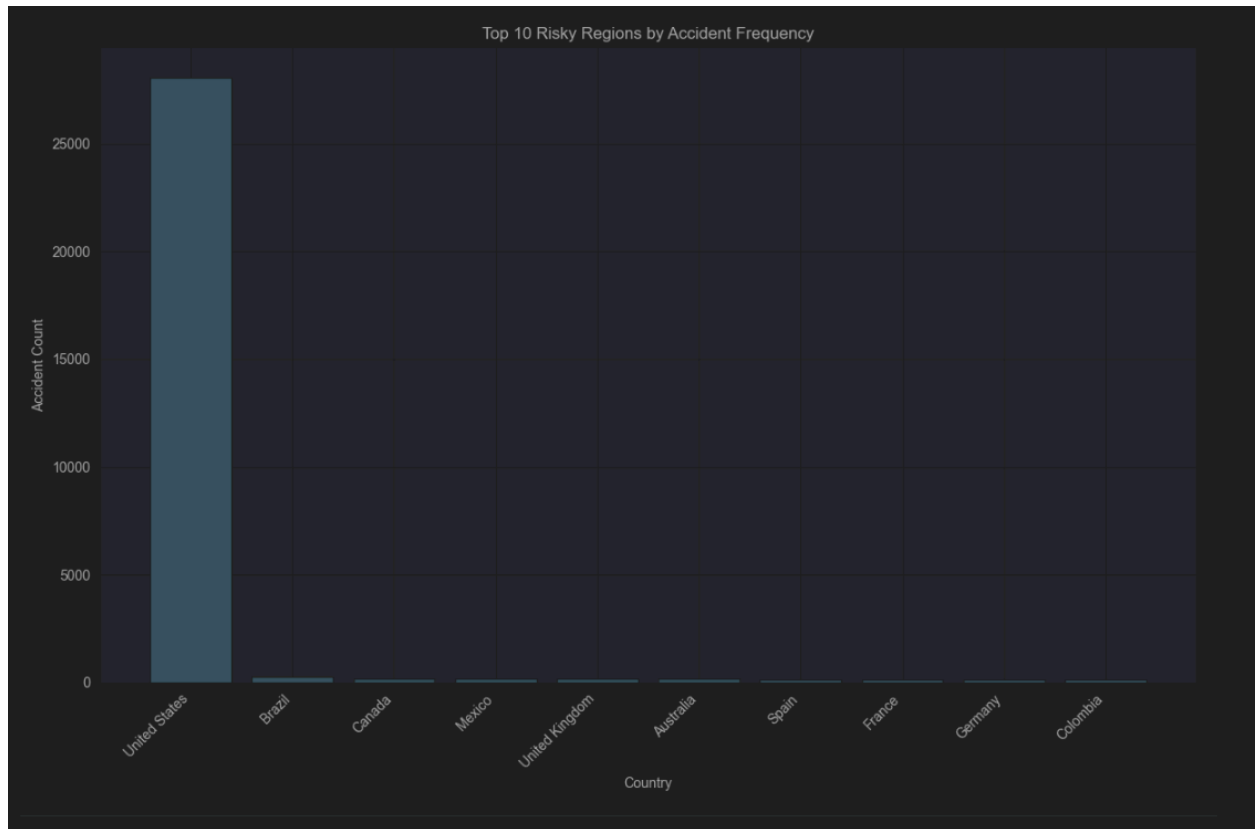
2. Visualization 2: Risk Assessment by Aircraft Category

- Bar plot depicting risk scores calculated for different aircraft categories based on severity.



3. Visualization 3: Top 10 Risky Regions by Accident Frequency

- Bar chart illustrating top 10 regions (countries) with highest frequency of aviation accidents.



Slide 5: Recommendations

Business Recommendations

- 1. Enhance Safety Measures Based on Yearly Trends**
 - Focus resources on years showing increasing accident trends.
- 2. Implement Specific Safety Protocols for High-Risk Aircraft Categories**
 - Strengthen regulations and training for categories with higher risk scores.
- 3. Regional Safety Initiatives**
 - Collaborate with high-risk regions to improve aviation safety standards.

Slide 6: Next Steps

Next Steps

- **Further Analysis:** Deep dive into specific accident types and contributing factors.
 - **Implementation:** Pilot recommended safety measures and monitor effectiveness.
 - **Continuous Improvement:** Regularly update safety protocols based on new insights.
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Slide 7: Thank You

Thank You

- **Questions?**