Phase1-project-Aircraft-Procurement-Analysis

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README

Phase 1 Project: Organ Transport Aircraft Analysis

Overview

This project involves analyzing Aircraft Incident data in order to provide stakeholders of my hypothetical business "TransOrgo" with recommendations on which airplanes to purchase."TransOrgo" is a service which provides transportation of organs via airplane for time-sensitive medical operations when the recipient is more than 500 miles away and the biological material is needed within 12-24 hours.

Business Understanding

- **Key Business Questions:**
  - Which weather conditions are the most risky to fly in?
  - What type of engine should be used?
  - Which type of airplane is least risky for organ transportation, based off the incident data?
  - Which model of airplanes are best for our business?

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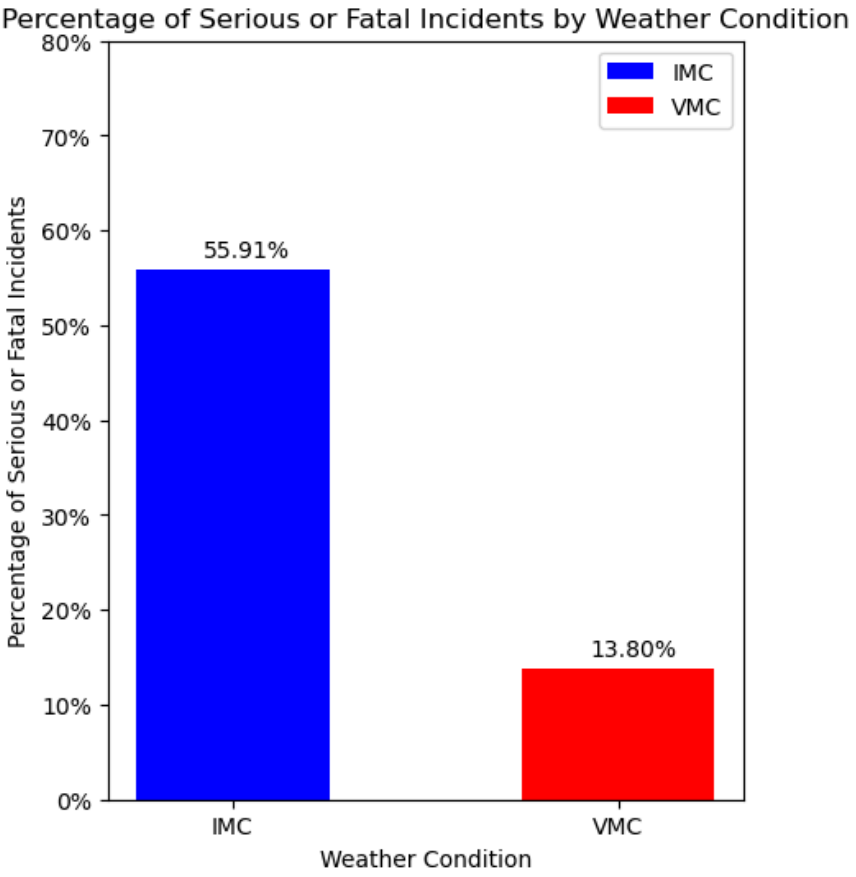
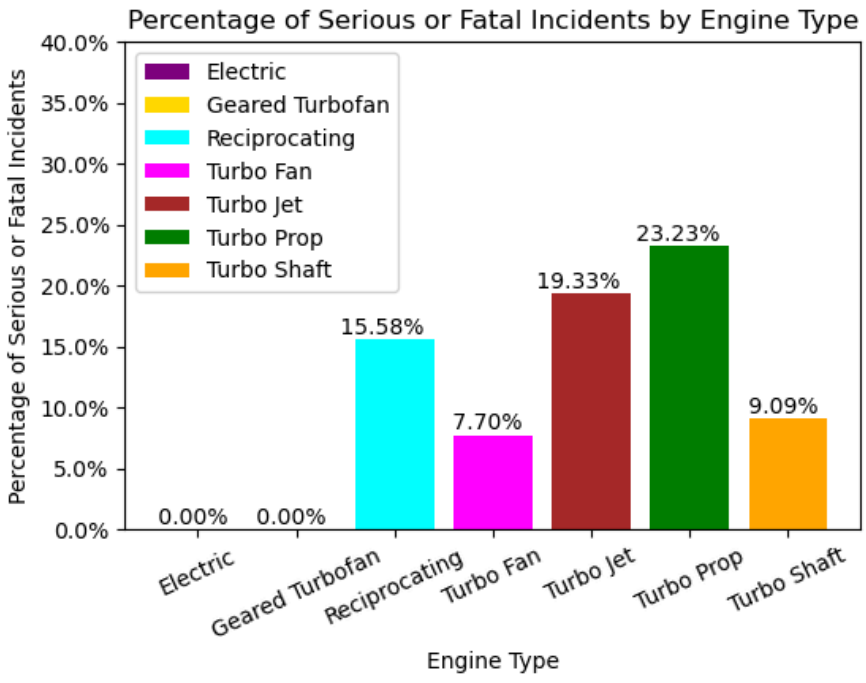
Data Understanding and Analysis

- **Source of Data:** Aviation incident data from 1962 to 2023, provided by the National Transportation Safety Board
- **Description of Data:** Aircraft type, incident type (serious, non-fatal, fatal, etc.), location, make, model, weather, build, type of engine, number of engines, and more
- **Visualizations:**

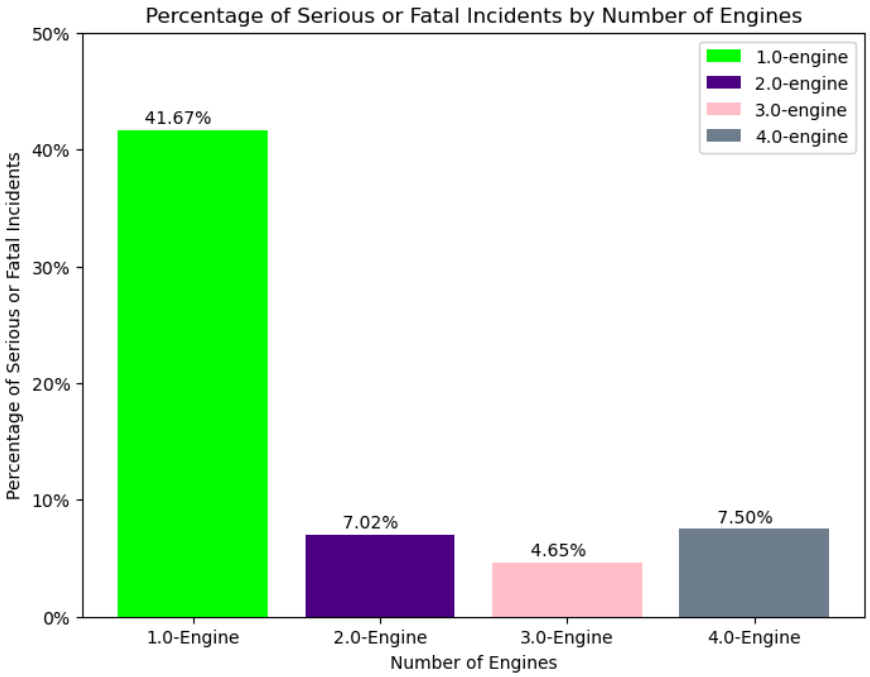
i.



ii.



iii.



Conclusion

- **Summary of Conclusions:**

  i. Pricing should be adjusted upwards during IMC (Instrument Meteorological Conditions) when pilots must rely exclusively on their instruments due to low visibility.

  ii. Turbofan engine airplanes are the least risky and should be prioritized for use.

  iii. The selected turbofan engine airplanes should be equipped with multiple engines for enhanced safety.

Links

- Tableau Dashboard
- Google Slides Presentation