

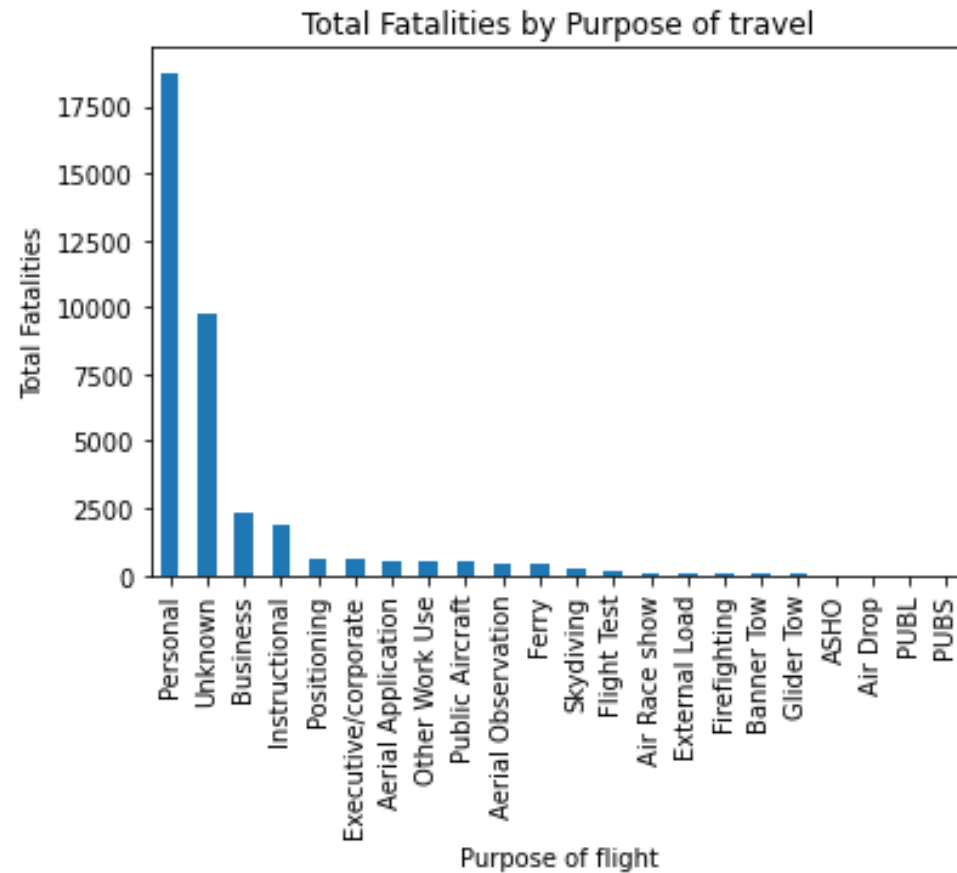
Phase 1 Project

Balram Ottapathu

Agenda

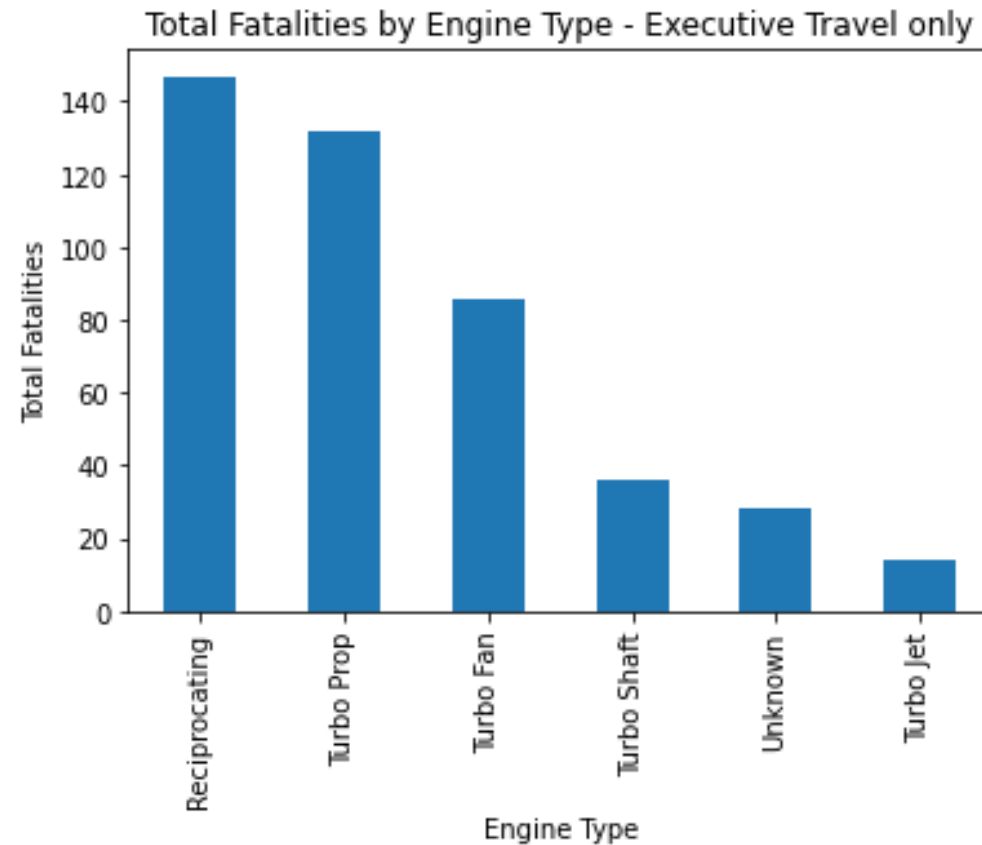
- Need to understand risk of aircrafts
 - Particularly for private/executive travel
- Recommendations

Personal travel has produced the greatest number fatalities



Data Analysis – Fatal Injuries by Purpose of Travel

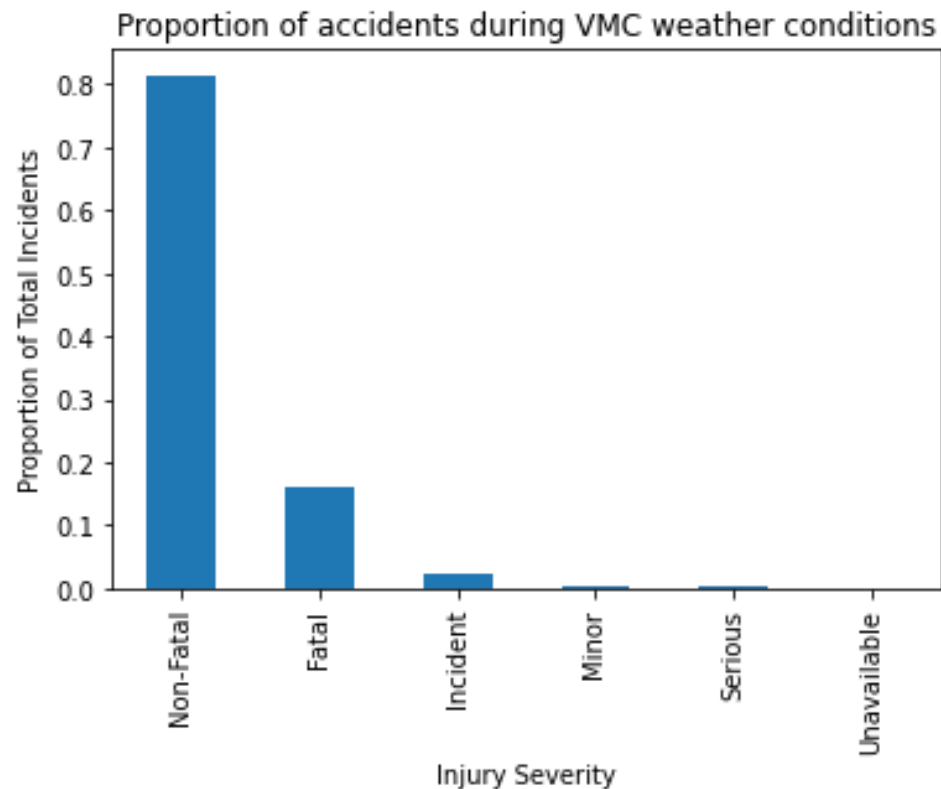
- Avoid Reciprocating Engine
- Focus on Turbo Jet



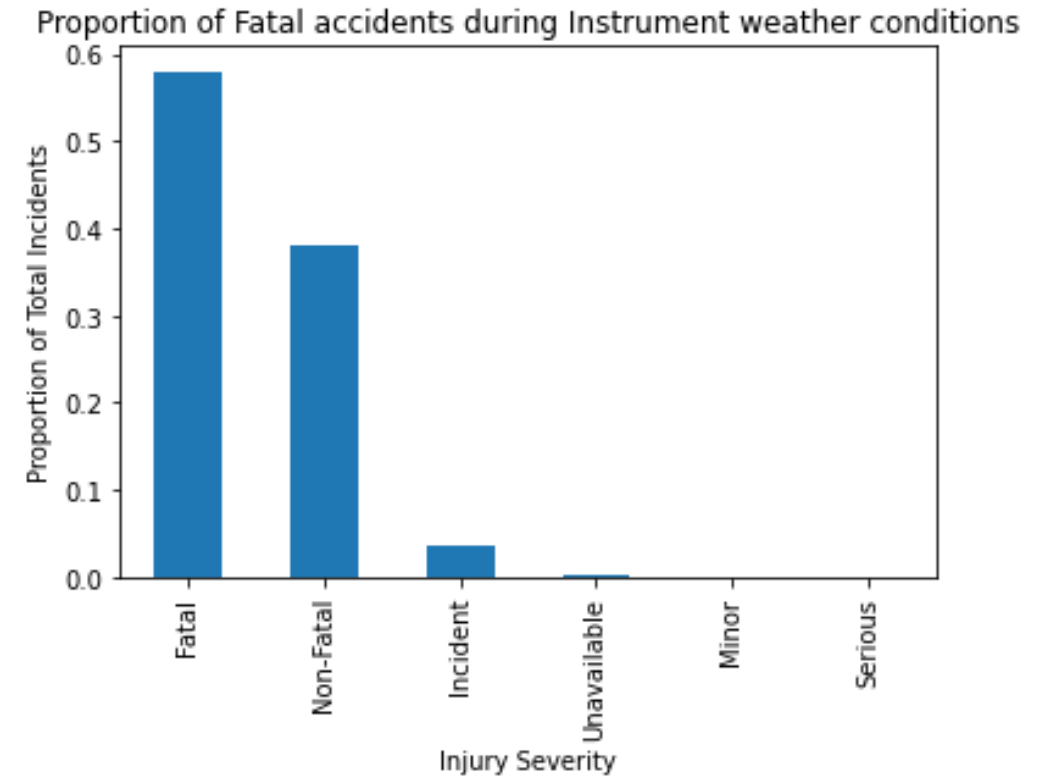
Data Analysis – Fatal Injuries by Engine Type

Data Analysis – Weather Impact on proportion of Fatal vs Non Fatal

VMC Conditions

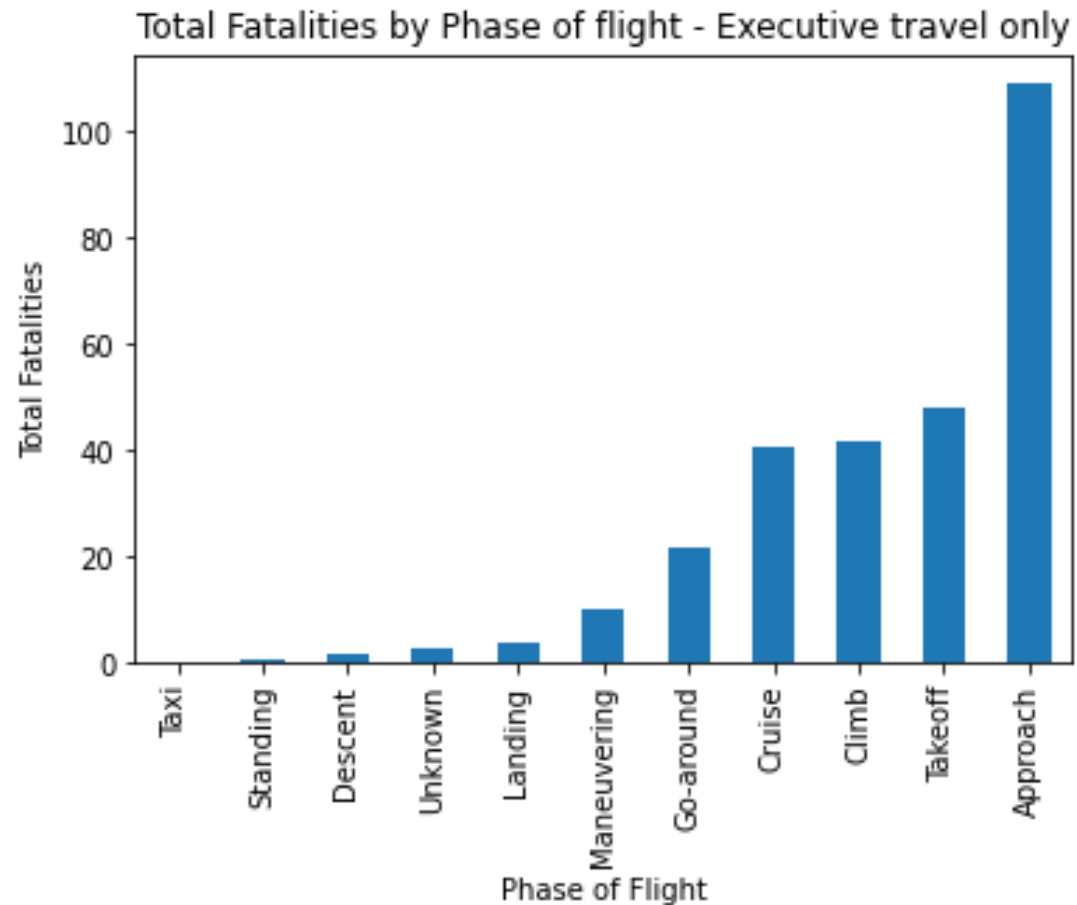


IMC Conditions



Under poorer visual conditions (IMC), proportion of accidents that are fatal are **~60%** vs **~17%** under VMC conditions

Data Analysis – Executive Travel



- Be careful when approaching

Data Analysis – Executive Travel

- Cessna - **34%** of data but **~45%** of total Fatalities.
- Learjet – **3%** of data but less than **1%** of Total Fatalities - may be a better option
- All other Makes are similar to Cessna i.e. over-represent fatalities

Recommendations

- Avoid flying if inclement weather forecasted
- Avoid reciprocating engines
- Develop Approach through simulations
- Final Choice - A Learjet LR-25 Turbo Jet

Other Considerations/Next Steps

- 1. Other factors to consider:
 - a. Cost
 - b. Passenger Capacity
 - c. Flight Range
- 2. Plane not most important
- 3. Total Injuries can be misleading

Questions?

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