

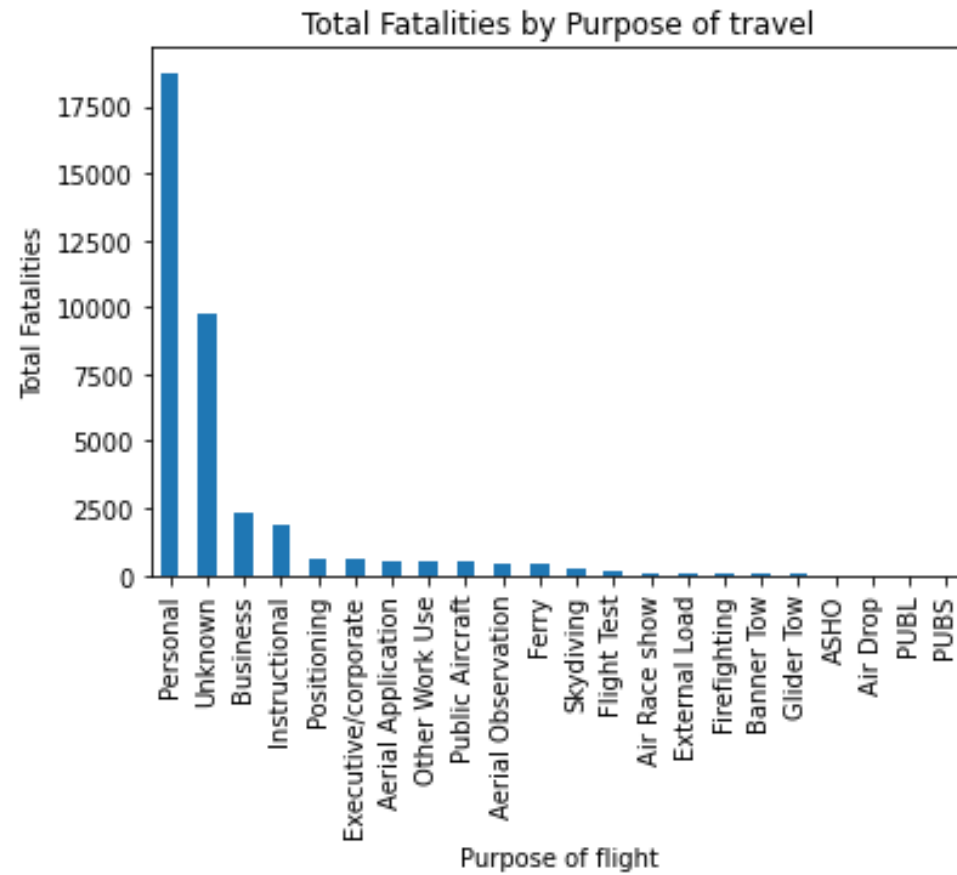
# Phase 1 Project

Balram Ottapathu

# Agenda

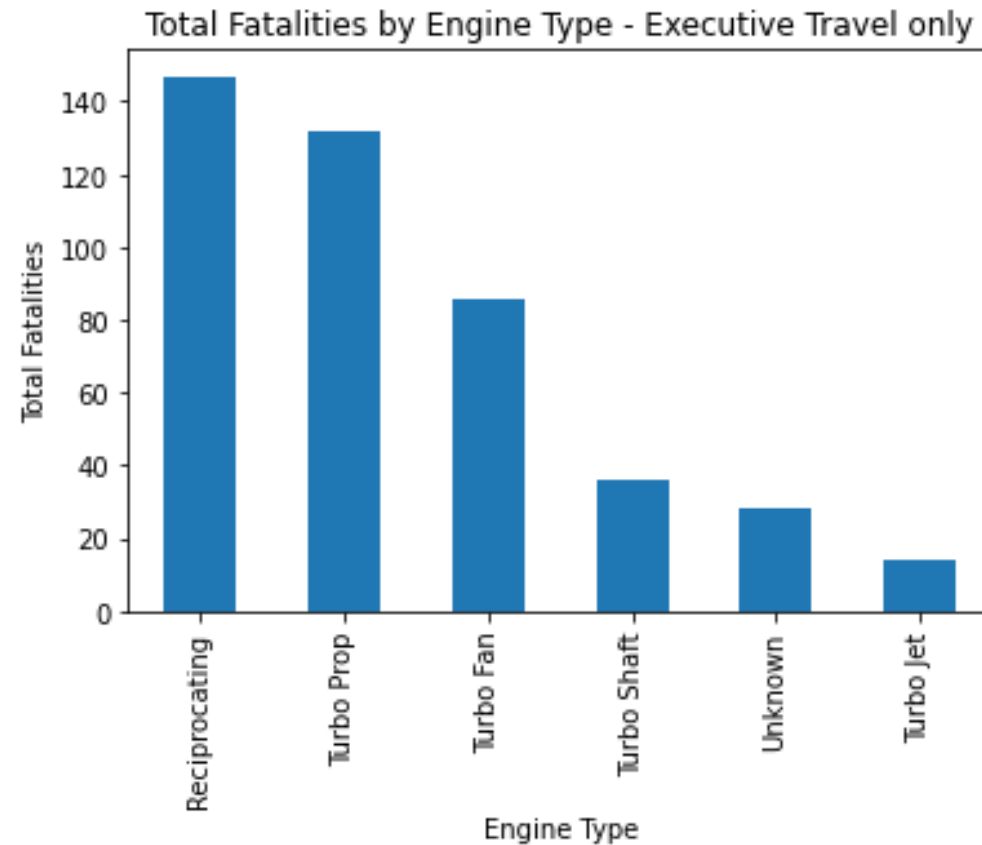
- Need to understand risk of aircrafts
  - Particularly for private/executive travel
- Recommendations

Personal travel has produced the greatest number fatalities



Data Analysis – Fatal Injuries by Purpose of Travel

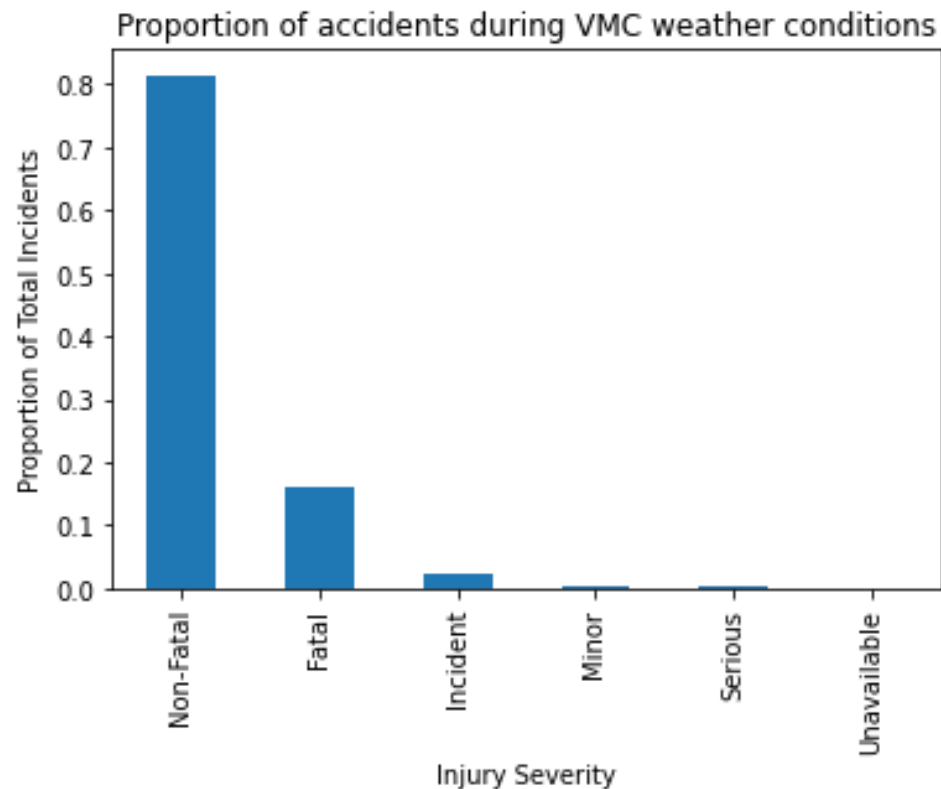
- Avoid Reciprocating Engine
- Focus on Turbo Jet



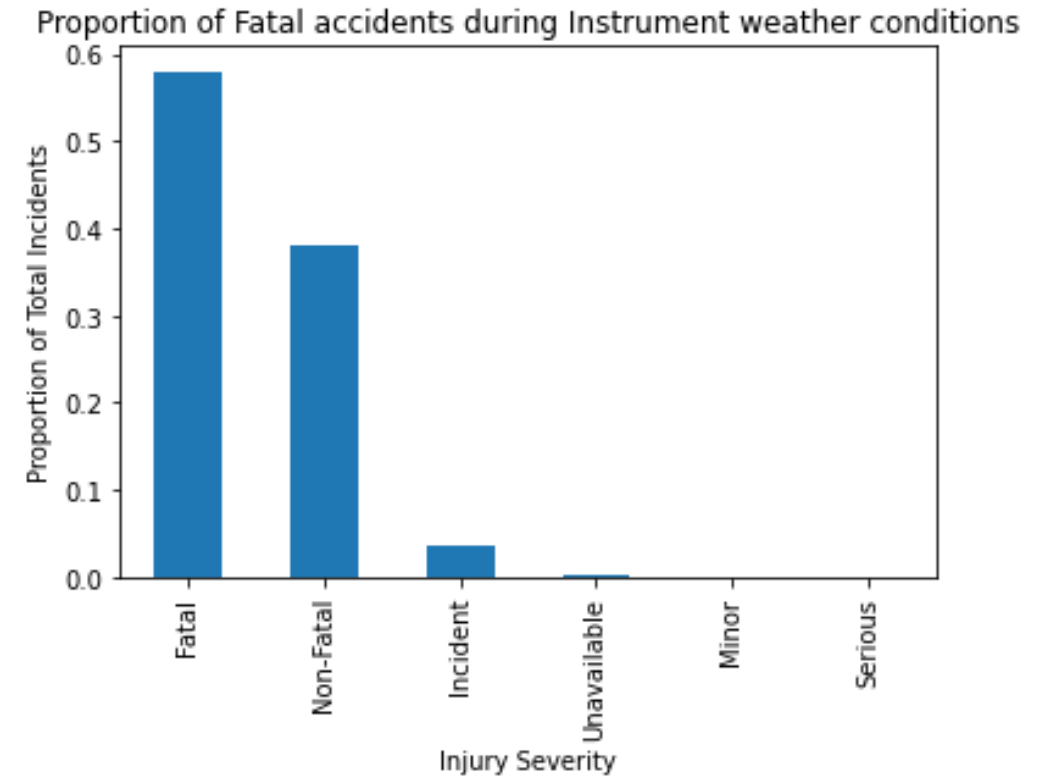
# Data Analysis – Fatal Injuries by Engine Type

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

VMC Conditions

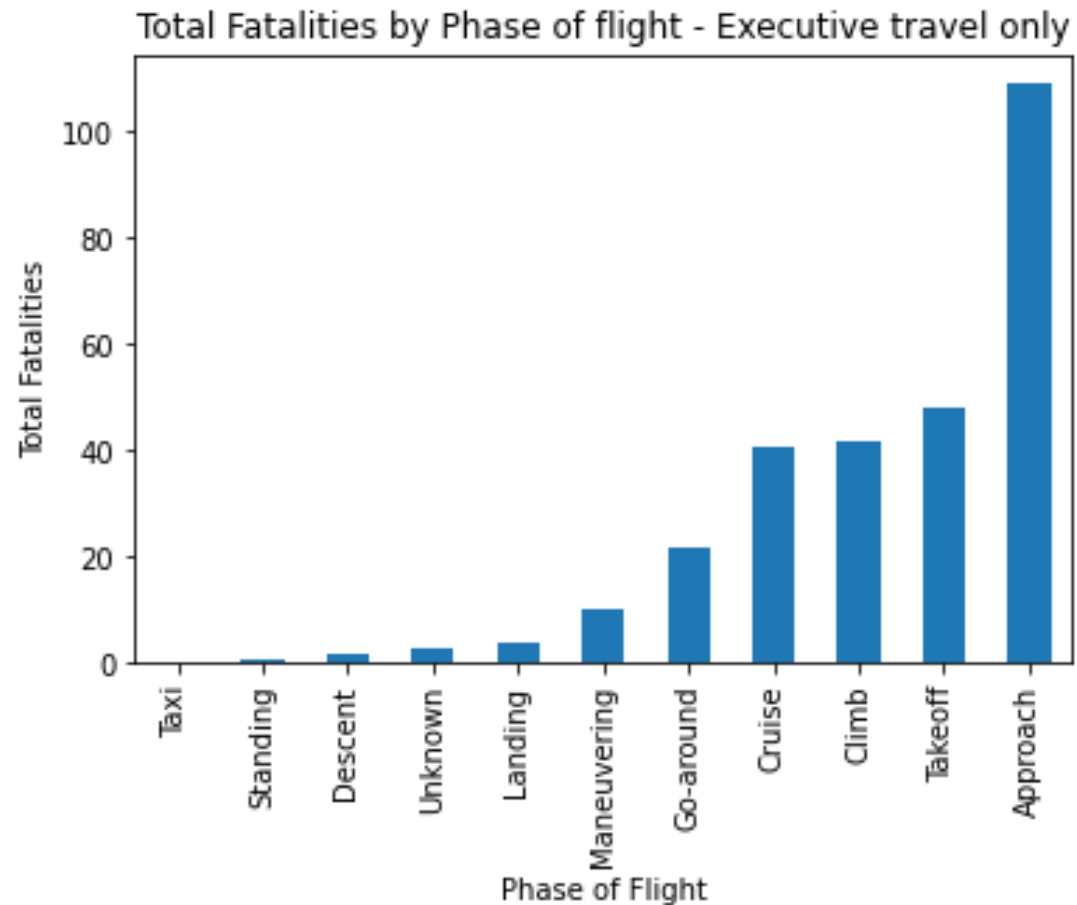


IMC Conditions



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

- Weather more important factor
- Avoid reciprocating engines
- Approaching – Take care
- A Learjet LR-25 Turbo Jet – Final choice?



## 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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