Phase 1 Project

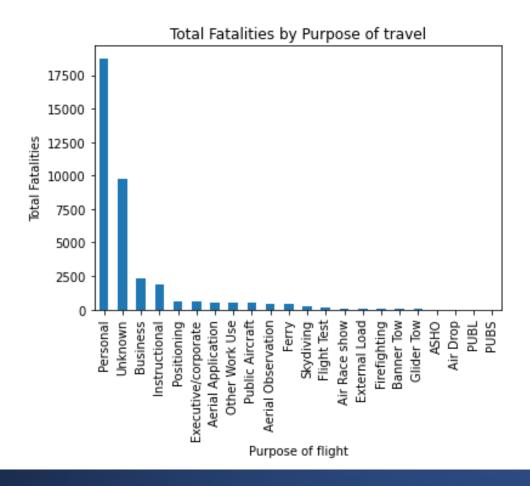
Balram Ottapathu

Agenda

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

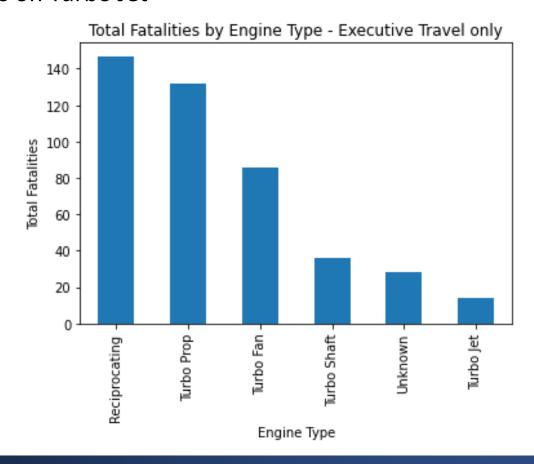
Recommendations

Personal travel has produced the greatest number fatalities



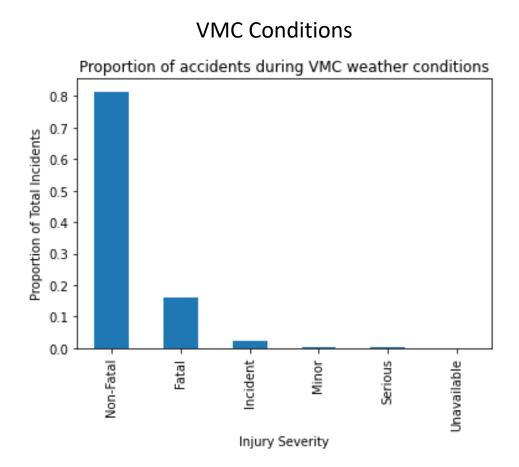
Data Analysis – Fatal Injuries by Purpose of Travel

- Avoid Reciprocating Engine
- Focus on Turbo Jet

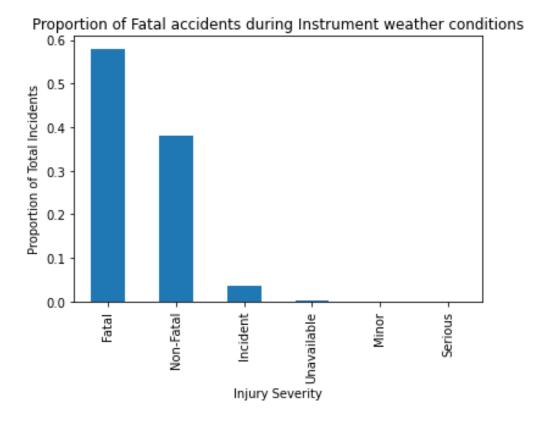


Data Analysis – Fatal Injuries by Engine Type

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

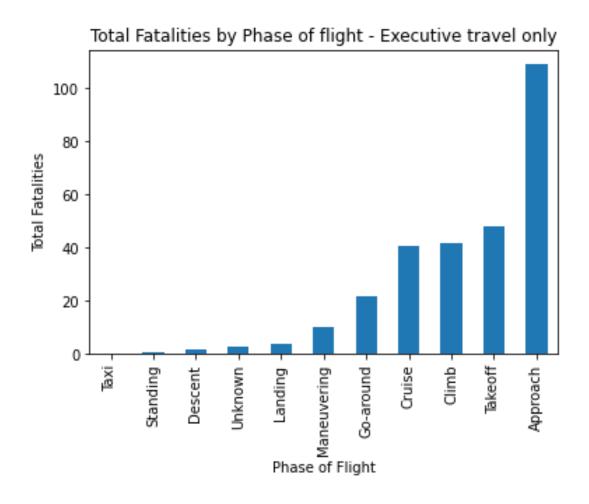


IMC Conditions



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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