

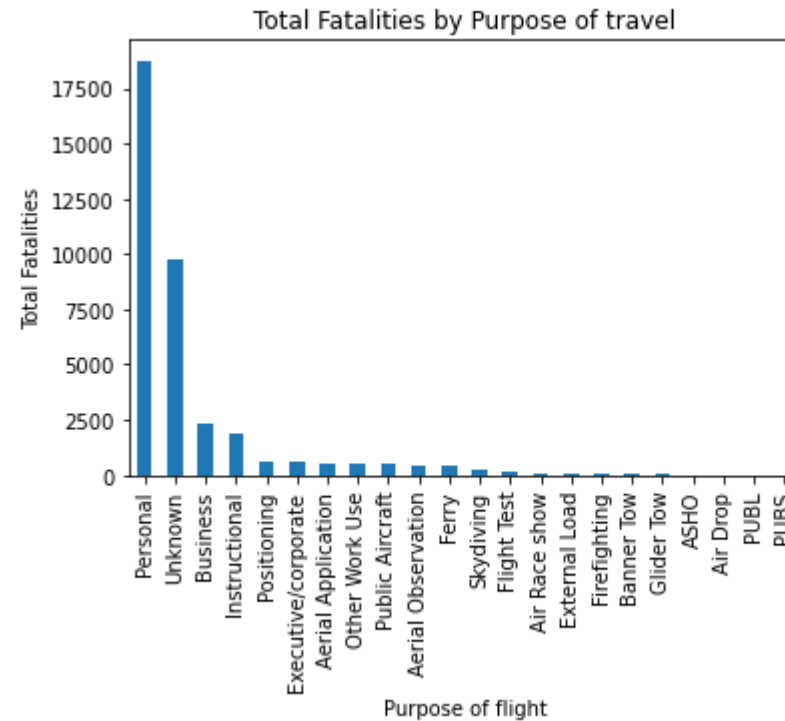
Phase 1 Project

Balram Ottapathu

Business Understanding

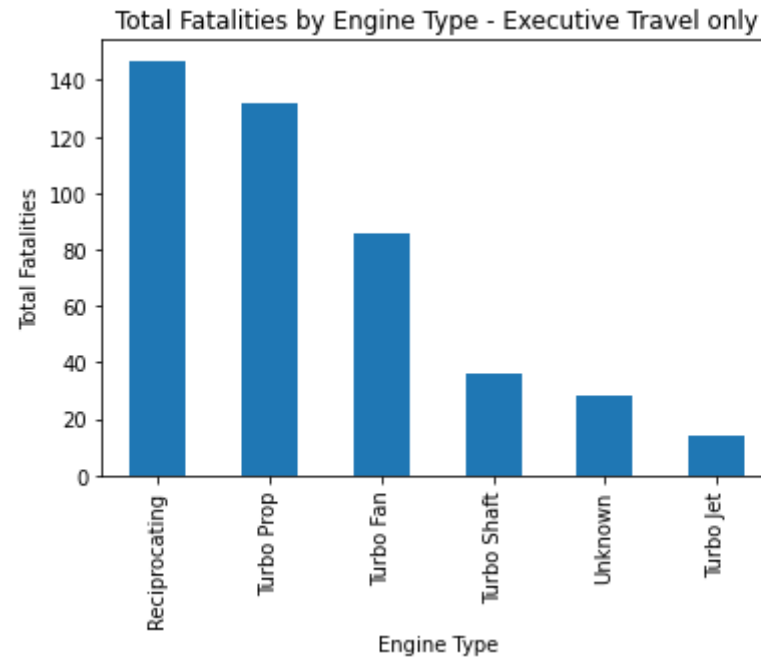
- Need to understand risk of aircrafts
 - Particularly for private/executive travel
- Recommendations

Personal travel has produced the greatest number fatalities



Data Analysis – Fatal Injuries by Purpose of Travel

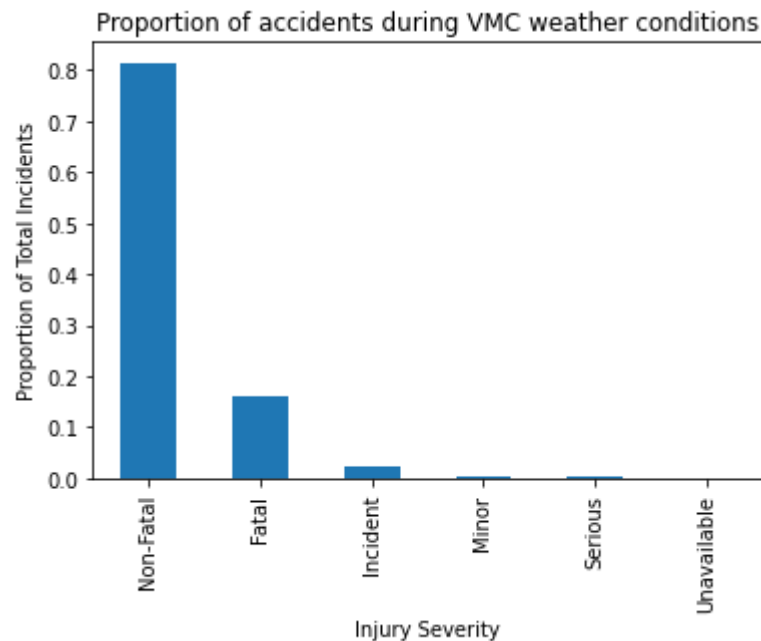
Reciprocating Engine by far the engine involved in the highest number of fatalities. Turbojet involved with least number of fatalities



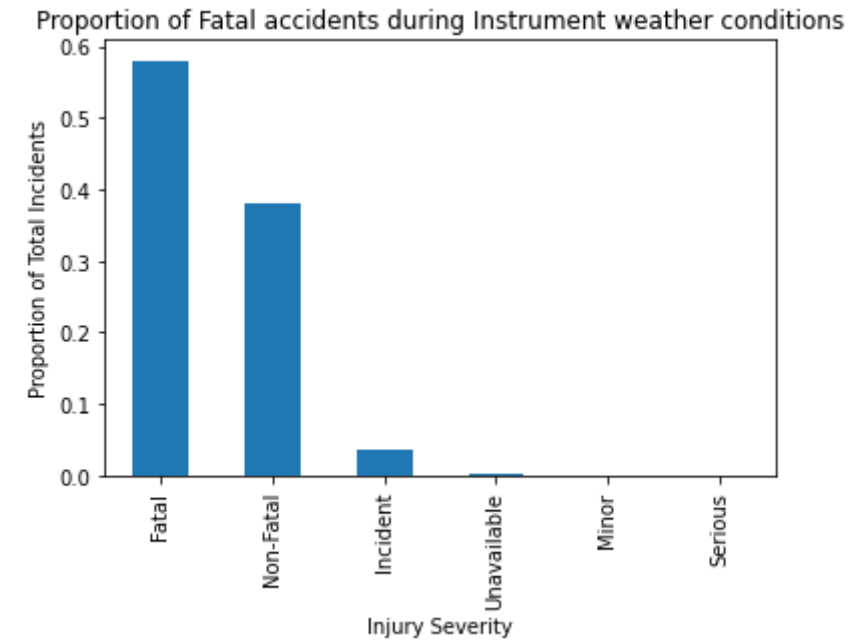
Data Analysis – Fatal Injuries by Engine Type

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

VMC Conditions



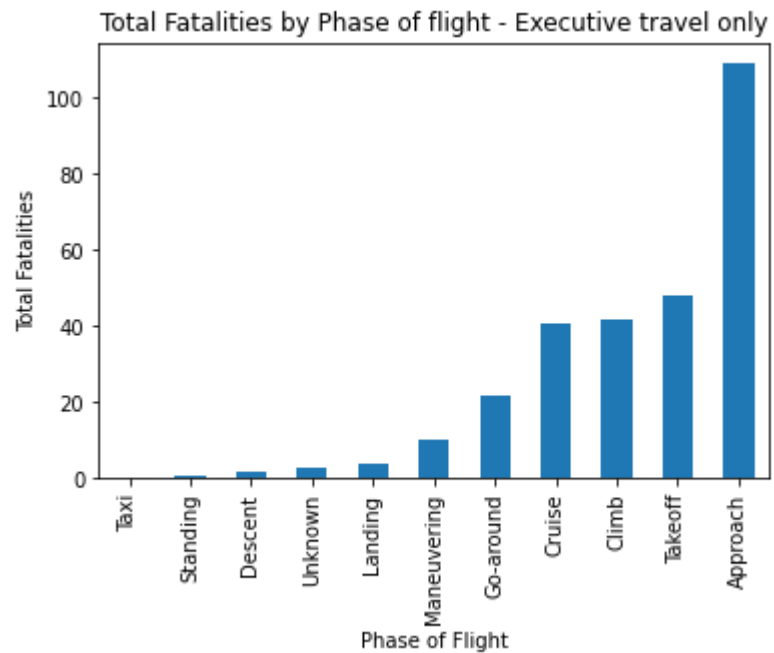
IMC Conditions



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

Data Analysis – Executive Travel

- Pilots need to take particular care when Approaching

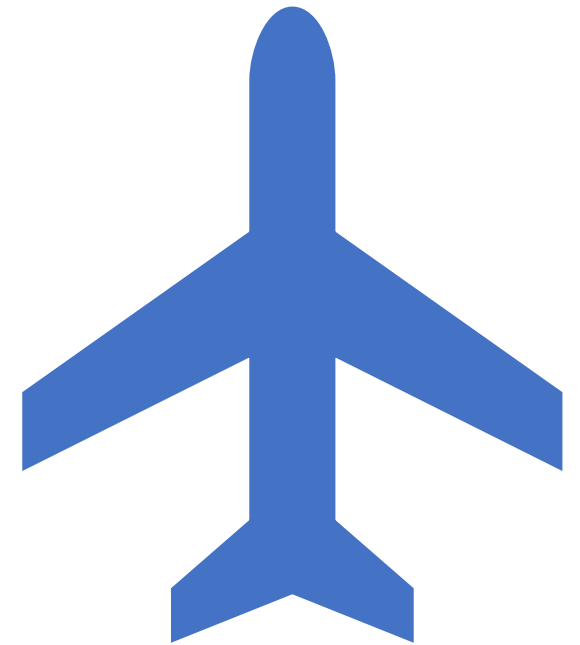


Data Analysis – Executive Travel

- 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 – over-represent Fatalities

Recommendations

- Weather potentially plays a more important factor than the type of plane
- Avoid reciprocating engines
- Pilots need to be particularly careful when approaching
- A Learjet LR-25, with Turbo engine is a possible candidate given the current information



Questions?

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