Plane & Simple

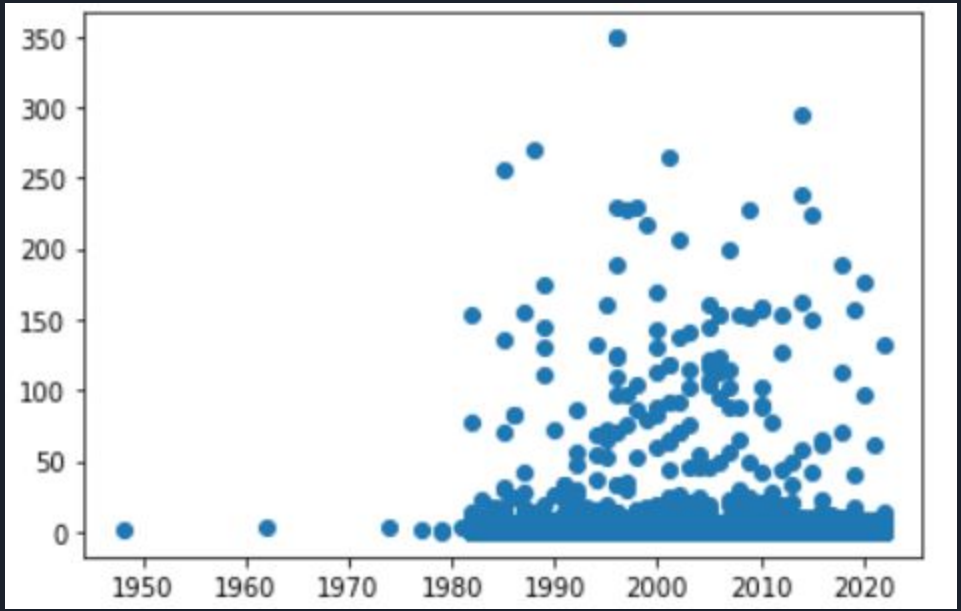
taking off with a bad pun

Data Understanding

Contains information on incidents -

- Fatalities
- Aircraft specs
- Purpose of flight
- etc…

Data Distribution



A majority of years have < 50 fatalities

79.96 %

of incidents have 0 fatalities.

9.99 % of incidents have 1 fatality

How much does the average American fly per year?

About 2-3 times per year

Customer Wants vs Your Wants

- Low cost
- Shortest flight
- Comfortability

- Minimal incidents
- Low fatality rate
- Safety in the event of an incident

How do we satisfy everybody's wants?

Points of Interest

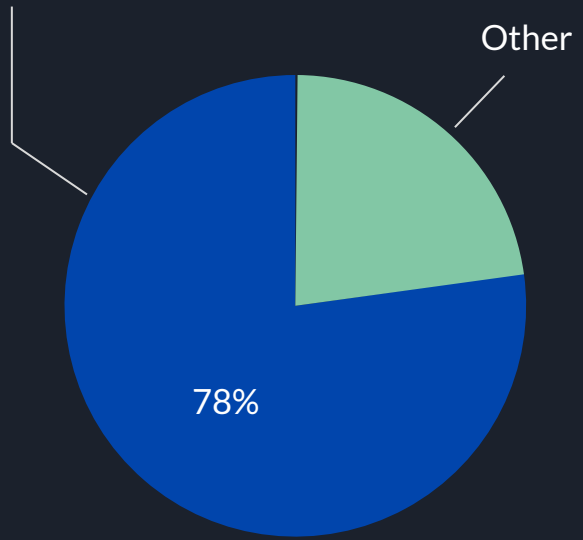
- Engine count
- Engine type
- Purpose of flight

Engine count

- More engines allows for redundancy
  - Engine failure isn't an immediate threat
  - Alots time for a safe landing
  - Trade off of more fuel

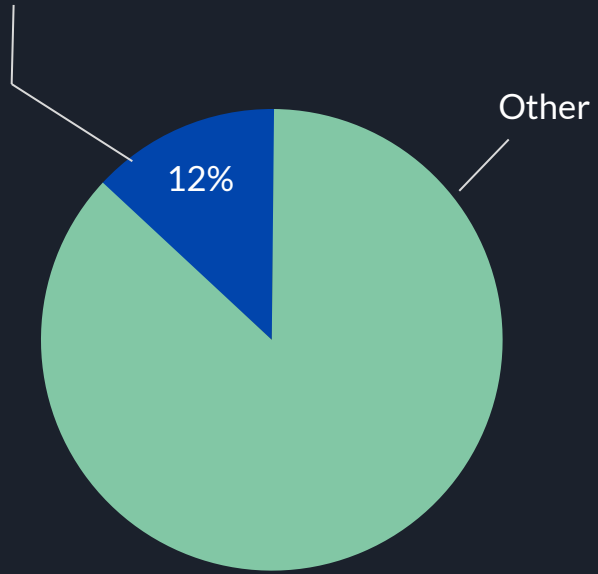
Engine incident rate

Single engine



66% difference

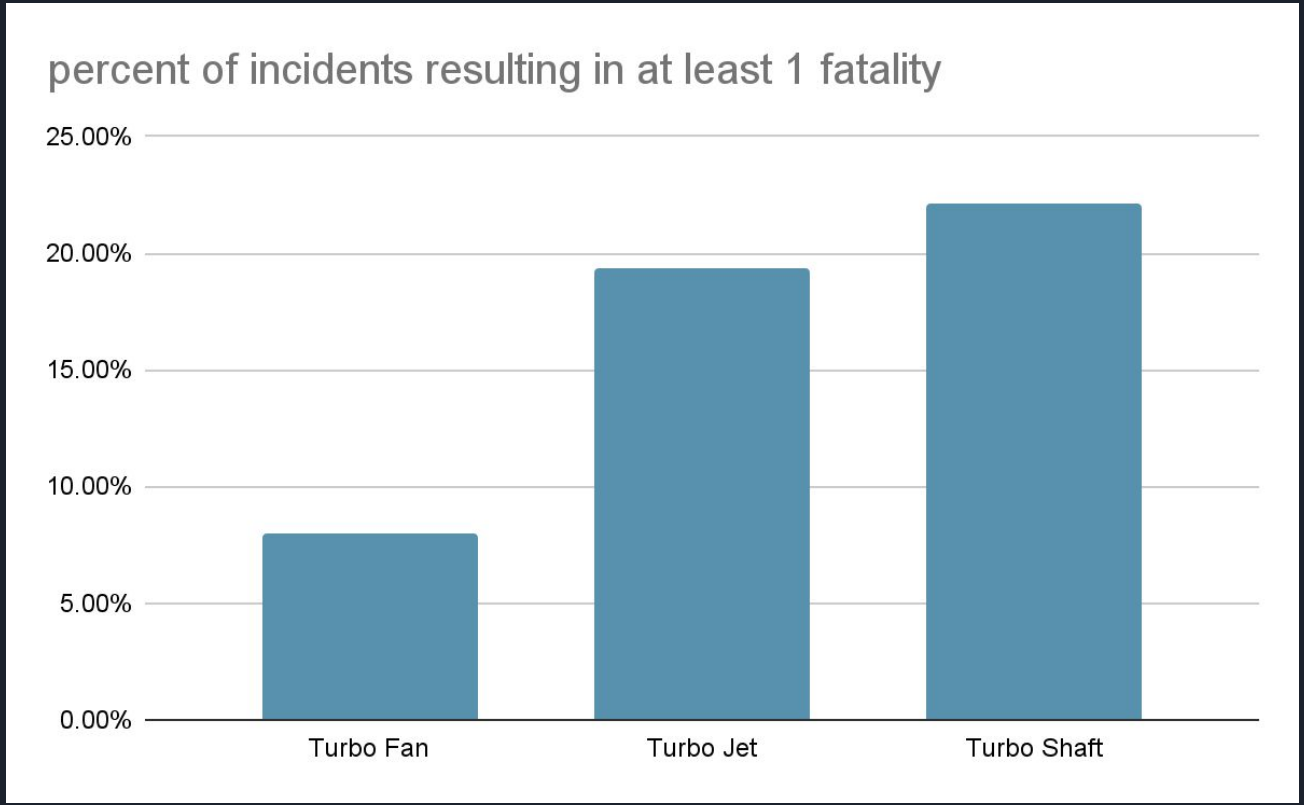
Dual engine



Engine Type

- Variables affected by engine type
    - Safety
    - Efficiency

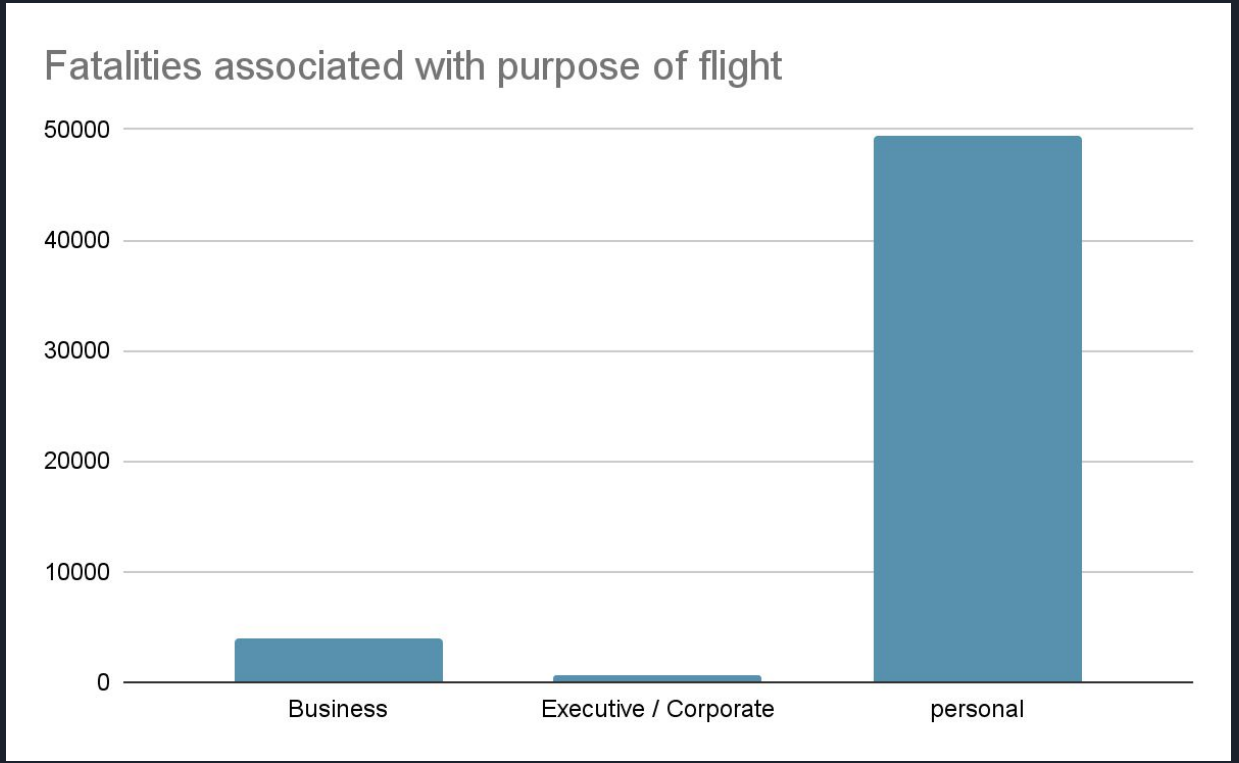
Here we can see that turbo shaft has significantly more incidents that result in at least 1 fatality



Purpose of Flight

- Personal
- Business
- Executive / Corporate

Personal flight are clearly more dangerous than other purpose of flights



Recommendation 1

- Airbus A330
  - Medium sized aircraft
  - 220 - 260 capacity
  - Dual turbo fan
  - Boasts an extremely low incident rate, being only 0.51% of incidents

Recommendation 2

- Boeing 747
  - Large size aircraft
  - 276 - 467 capacity
  - Quad turbo fan
  - Moderately low incident rate of 3.1%

Recommendation 3

- Cessna Latitude
  - Small business jet
  - 9 max passengers
  - Dual turbo fan
  - No reported fatalities

Thank you

questions?

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