Assessing Aircraft Risk for New Aviation Division

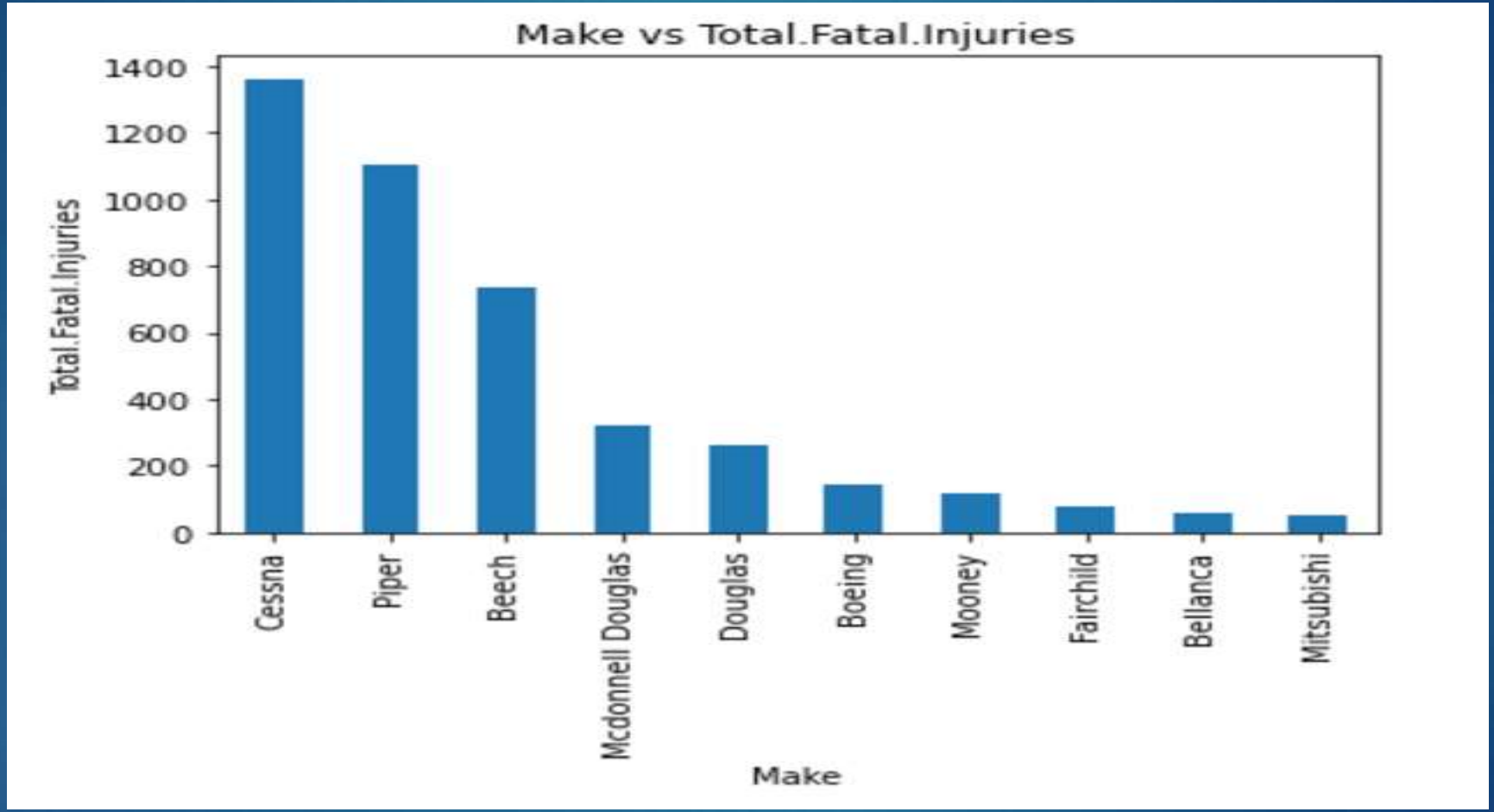
Business Problem.

- Your company is expanding in to new industries to diversify its portfolio. Specifically, they are interested in purchasing and operating airplanes for commercial and private enterprises, but do not know anything about the potential risks of aircraft. You are charged with determining which aircraft are the lowest risk for the company to start this new business endeavor. You must then translate your findings into actionable insights that the head of the new aviation division can use to help decide which aircraft to purchase.

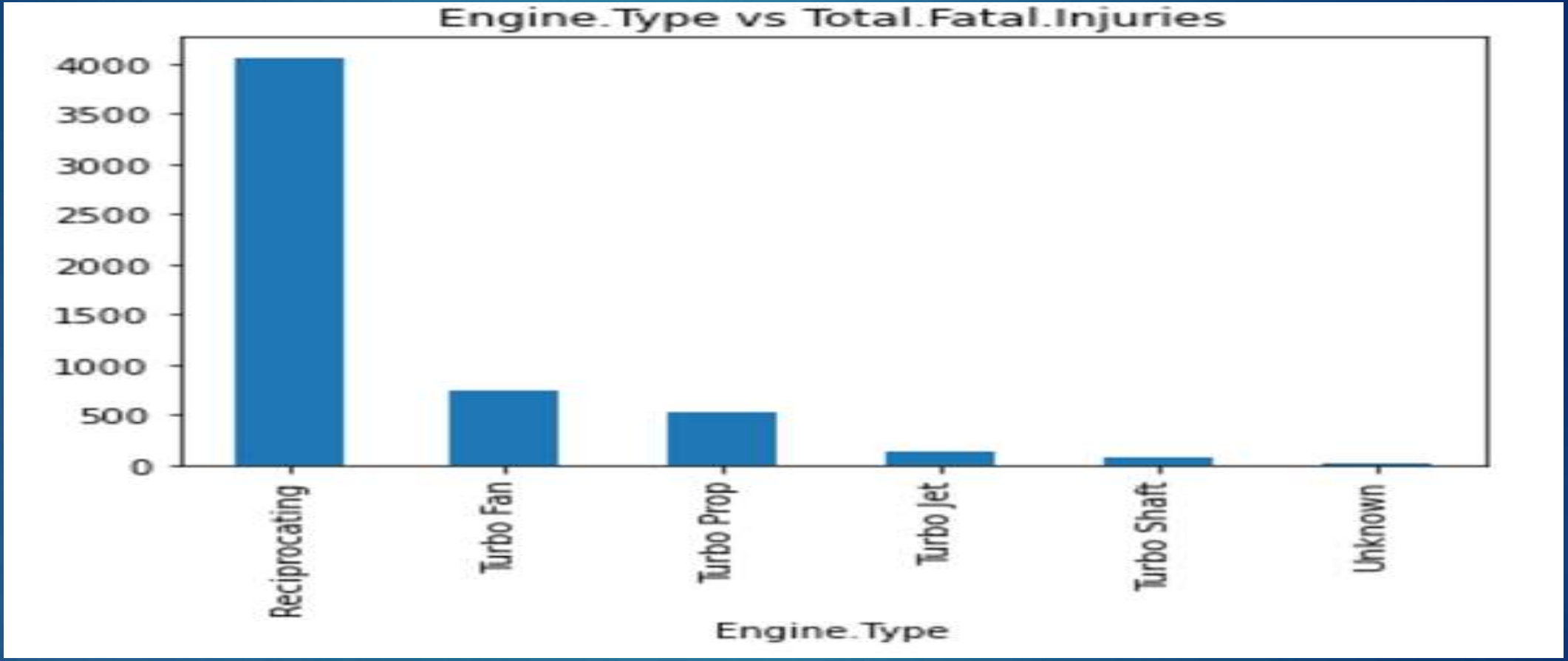
Goal.

To identify the aircrafts with the highest risk.

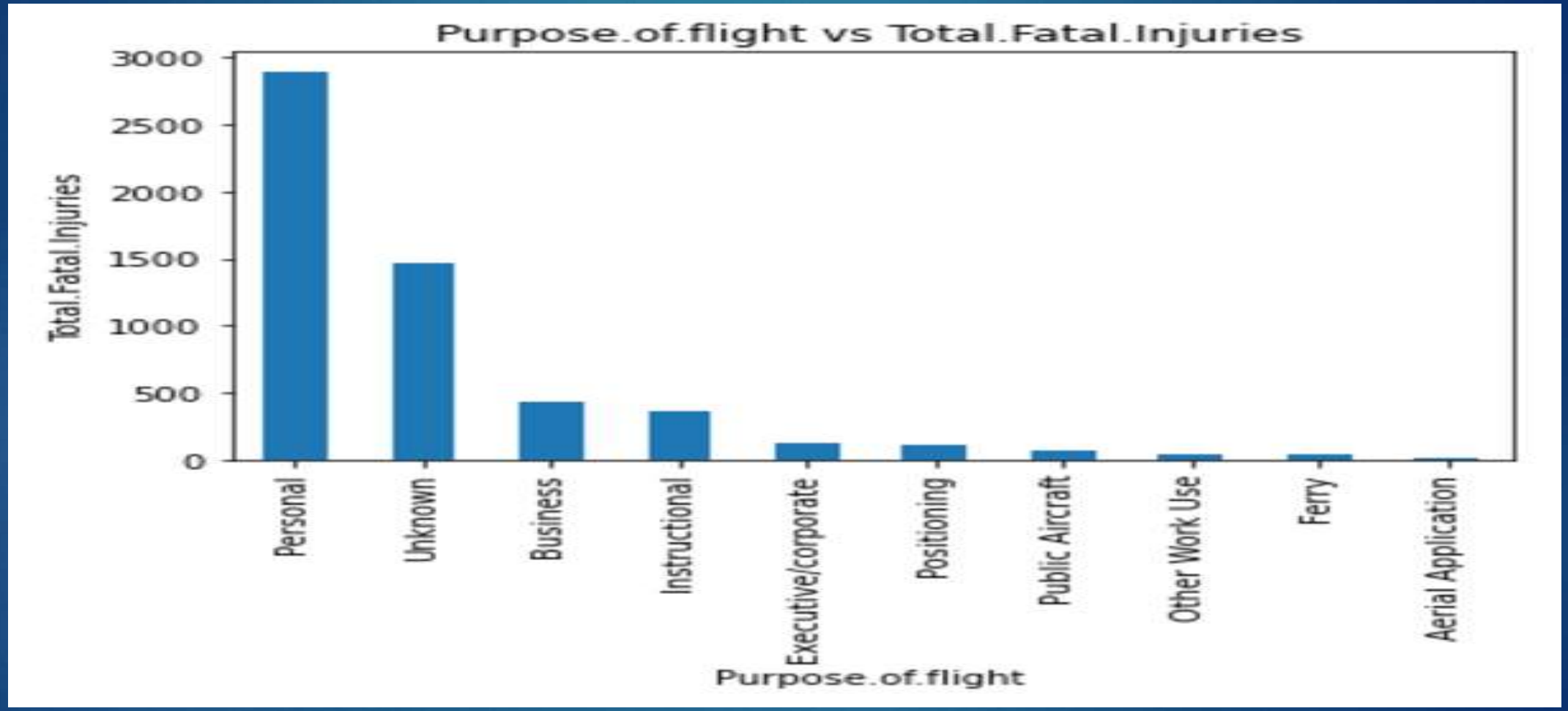
Aircraft make



Aircraft Engine



Purpose of Flight.



Recommendations

- **Aircraft Make**
- Cesena and Piper are the highest risk aircrafts and should be avoided. Mitsubishi had the lowest fatalities.
- **Aircraft Engine**
- Reciprocating Engine had the highest fatalities and should be avoided. Turbo shaft engines had very low fatalities and should be considered
- **Purpose of Flight**
- Personal perpose of flights had the highest fatalities and carry the highest risk of reason for flight.

Next Steps.

- **Aircraft Make.**
- In the use of Cesena and piper aircraft heavy maintenance checks should be applied.
- **Aircraft Engine.**
- Turbo Shaft engine should be used in place of reciprocating engines and they should also face strct and high maintenance checks,
- **Purpose of flight.**
- As personal flights carry heavy fatalities, you should ensure that pilots recieve strict training to ensure no fatalities are made.

Thank You.