Project Title: ML based predictive analytics for aircraft engine

Team ID: PNT2022TMID07751

Define CS, fit into CC

1. CUSTOMER SEGMENT(S)

Who is your customer?



CS

6. CUSTOMER **CONSTRAINTS**

Constraints here could include physical movements, time, flight operations, militry operations, easing the noise, weather, reduced flows, length, size of aircraft and so on. There are also environmental requirements to consider.

5. AVAILABLE SOLUTIONS

Maintaining the structural failures where a broken connecting rod, crank valve, or camshaft is present account for 17% of engine failures occurs. Preventing the fuel problems.

Explore AS, differentiate

2. JOBS-TO-BE-DONE / PROBLEMS J&P

The engine failure occur due to the fuel problems like the contamination and exhaustion. We can prevent it by proper maintainence.

9. PROBLEM ROOT CAUSE

The root cause of the problem is unforeseen and unpredictable engine failure that has increased the hazards of air travels

7. BEHAVIOUR

RC

We can encourage the customers to give the feedback and we should focus on the service quality and should increase the safety and security.

BE

3. TRIGGERS

TR

Mechanical failure by undertorqueing cylinder, Structural failures due to pilots ignorance and the fuel problems such as exhaustion and mismanagement.

4. EMOTIONS: BEFORE / AFTER



This happens when the customers are not satisfied with the services. At their dissatisfaction where they lose all their hopes in our services and start approaching others for a better solution.

10. YOUR SOLUTION

By identifying the needs you can provide faster and effective support. We should improve our product and services and satisfy the customer needs.

8. CHANNELS of BEHAVIOUR



8.1 ONLINE

We can suggest the positive employee attitudes, behaviors, and prompt services recovery actions that generates more positive emotions.

8.2 OFFLINE

We can make a effort to convert dissatisfied customers into loyal ones and we must make the customer feel goog about the experience they faced.