Problem-Solution fit canvas 2.0

Purpose / Vision

Define CS, fit into CC

1. CUSTOMER SEGMENT(S) — CS

Business peoples and regular flight users face a important problem which was missing their flight due to un accurate prediction of arrival and delay. Many emergency patients whom have to fly for their treatment suffers due to flight delay.

6. CUSTOMER CONSTRAINTS — CC

Flight delay is inevitable and it plays an important role in both profits and loss of the airlines. This project proposes a model for predicting fight delay based on Deep Learning (DL). DL is one of the newest methods employed in solving problems with high level of complexity and massive amount of data.

5. AVAILABLE SOLUTIONS — AS

Instead of linear regression prediction model, we used Gradient Boosted Algorithm.

Merits: The better algorithm makes the prediction more accurate.

Demerits: The delay of the flight causes time loss, financial and mental pressure on the passengers.

Explore AS, differentiate

Focus on J&P, tap into BE, understand RC

2. PROBLEMS — J&P

The impact of flight delay can be a risk and this risk represents financial losses, the dissatisfaction of passengers, time losses, loss of reputation and bad business relations. If an airline doesn't deal with this problem immediately, it will cause other problems.

9. PROBLEM ROOT CAUSE — RC

- Lack of or incorrect documentation
- Lack of or incorrect training
- Lack of management commitme

7. BEHAVIOUR — BE

Due to delay of flight passenger looses his patience and his temper increases slightly

Focus on J&P, tap into BE, understand RC

Identify strong TR & EM

3. TRIGGERS — TR

Extreme Weather, Late Arriving Aircraft, Waiting for Connecting Passengers or Connecting Bags, Mechanical Delays or etc are the reasons why passengers face flight delays. It's important to notify the passengers about their flight is delayed or not which can make them, some flexibility into their schedule.

4. EMOTIONS: BEFORE / AFTER — EM

Many reasons may directly affect the airline services by means of flight delays. To solve this issue, accurately predicting these flight delays allows passengers to be well prepared for the deterrent caused to their journey and enables airlines to respond to the potential causes of the flight delays in advance to diminish the negative impact. So here we propose a flight delay prediction model to predict if a flight will be delayed or not before it is even announced on the departure.

10. YOUR SOLUTION — SL

Data science based flight delay prediction uses gradient boosting algorithm is better and faster algorithm.Futher flight can be predicted.The prediction can be commonly found in web application using machine learning.

8. CHANNELS of BEHAVIOUR — CH

1. ONLINE

We notify the information about of flight in web application.

8.2 OFFLINE

You are offine in application show last information about the flight

Extract online & offline CH of BE

AMALTAMA