Project Title: Developing a Flight Delay Prediction Model using Machine Learning

Project Design Phase-I - Solution Fit Template

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Define CS, fit into CC

Explore AS, different

1. CUSTOMER SEGMENT(S) `CS`

People who wish to use airlines

6. CUSTOMER CONSTRAINTS `CC`

Not having proper knowledge on the problem ,lack of technology implementation, no proper data from weather forecasting department

5. AVAILABLE SOLUTIONS `AS`

Will state the reason for the delay and gives the details about the updated timings

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

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

Flight delay causes bad customer experience, loss of economy for the company, extra charges for the customer when waiting for the flight and customer may miss important meeting which will create bad reputation on the organization

9. PROBLEM ROOT CAUSE `RC`

Delay occur because of bad weather, air-traffic, less runways, check-in delays, bad health, other unavoidable and unpredictable situations

7. BEHAVIOUR `BE`

Matches the flight details with the scheduled flights to check the time of scheduled arrival and departure and if the flight delayed then find the rescheduled time and it's reason.

Identify strong TR & EM

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3. TRIGGERS `TR`

Delay in the scheduled time of the flights, disturbing the plans of the customer

10. YOUR SOLUTION `SL`

The model will state the reason for the delay along the predicted rescheduling of the flight to the passengers based on the details of the flight

8. CHANNELS of BEHAVIOR `CH`

8.1 ONLINE
- Know the flight's details
- Reason for the delay
- About backup flights

8.2 OFFLINE
- Will get to know the details of the flight at the airport

4. EMOTIONS: BEFORE / AFTER `EM`

With the delay the customer's entire plan for the day gets collapsed and additional cost is also being spent.
With a prediction system,the customer can plan his/her actions accordingly to carry over with the delay