Project Design Phase-1

Problem-Solution Fit

Date	28 th september 2022
Team ID:	PNT2022TMID08904
Project Title	Airlines data analytics for aviation industry

1. CUSTOMER SEGMENT(S)

. Customer segmentation is the process by which customer is divided based on common characteristic or behavior

. customers are airport, tourist/travel agencies and other stakeholder to provide the data

.one of the possible aspects for passenger route forecasting model can be the customer segmentation

6. CUSTOMER CONSTRAINTS

ts prevent your customers from taking action or limi

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 customer constraints could be physical movements, time, flight operation, military operations, easing the noise, weather, reduced flows, length, size of aircraft and so on

 customer experience in the airline industry is often defined as what the customer perceives and experience while travelling through the different departure stages and arrival in an airport

5. AVAILABLE SOLUTIONS

Which solutions are available to the customers when they face the problem or need to get the job done? What have they tried in the past? What pros & cons do these solutions have?

 Understanding traveler demand for specific city pairs and pricing flights can be done using data analytic

. Airlines use this AI system which is built in machine learning algorithm to collect and analyze flight data with regard to each route distance and altitude, aircraft type and weight, wealth etc. These can be handled with the aforementioned project

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

Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different

 Average aircraft delay is regularly referred to as an indication of airport capacity. Flight delay is a prevailing problem in this world.

 It hurts airports, airlines, and affects a company's marketing strategies as companies rely on customer loyalty to support their frequent flying program

9. PROBLEM ROOT CAUSE

What is the real reason that this problem exists? Who

 A few factors responsible for the flight delays like runway construction to excessive traffic are rare, but bad weather seems to be a common cause.

 Some flights are delayed because of the reactionary delays, due to the late arrival of the previous flight.

7. BEHAVIOUR

What does your customer do to address the problem and ge

. Have done a sentiment analysis and opinion mining that analyzes people's opinions, sentiments, and studies their behavior.

. The output of the research is a featurebased opinion summary which is also known as sentiment classification ap into BE, understand

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3. TRIGGERS

What triggers customers to act?

Establish different levels of trigger
 From customer points are facility/airport
 Airport incident, security and weather

4. EMOTIONS: BEFORE / AFTER

ow do customers feel when they face a problem or a job and afterwards?

 The customers emotions can be frustrated if the delay in flight and result in loss of customer trust and loyalty

10. YOUR SOLUTION

If you are working on an existing business, write down your current solution first, fill in the carriers, and check how much it fits reality. If you are working on a new huriness in monoition, then have it blank until you fill in the carriers.

and come up with a solution that fits within customer limitations, solves a problem and natches customer behavior.

The solution is to predict the reasons for flight

delay and for that we have put in efforts for collecting data about the flight and weather

 we have created mining model which enables the light delay by observing the weather conditions

 The motive is to propose an approach that mprove the operational performance

8. CHANNELS of BEHAVIOUR

ONLINE

. In airline analytics aviation in online should be more secured and authenticated that other third party or any other couldn't able to access the data of

8.2 OFFLINE

What kind of actions do customers take offline? Extract offline channels from #7 and use them for customer development.

 offline is better as you will get better service from travel agents especially when issues like cancellations, refunds arise

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