Problem-Solution Fit canvas

Purpose / Vision

Version:

Define CS, fit into CL

1. CUSTOMER SEGMENT(S)

IMD has predicted rainfall.

6. CUSTOMER LIMITATIONS

Longer term facter is the biggest limitation.

5. AVAILABLE SOLUTIONS PLUSES & MINUSES

To be able to predict rainfall using Machine learning techniques,you need to have past data, and model created based on the past data.You need to test the model on the test data and fine tune the model to get better accuracy.In future big data analysis be used.

Explore AS, differentiate

Focus on PR, tap into BE, understand RC

2. PROBLEMS / PAINS + ITS FREQUENCY

PR

Well their ability to predict the rainfall is limited by three factors: the amount of available data,the time available to analyze it, And the complexity of rainfall events.And also sesonal forecasting can affect our retail sales.

9. PROBLEM ROOT / CAUSE

RC

Heavy rainfall prediction is a major problem for meterological department as it is closely associated with the economy and life of human.It is a cause for natural disasters like flood and drought which are encountered by people across the globe every year. The potential impacts of heavy precipitation include crop damage, soil erosion, and an increase in flood risk due to heavy rain.Which turn can lead to injuries , drownings and other flooding related effects on health.

7. BEHAVIOR + ITS INTENSITY

BE

The models have been trained successfully. All the values can be drafted for prediction. So, we have considered regression algorithm and classification algorithm. We have learned different preprocessing technique that are required in preparing the dataset.The dataset must be free from all kinds of noise,inconsistency, overfitting, and other odds that may affect the performance of the model.

Identify strong TR & EM

3. TRIGGERS TO ACT

TR

The act of attempting to artificially induce or increase precipitation usually to stave off drought or the wider global warming. Even to solve the global warming problem.

4. EMOTIONS BEFORE / AFTER

It affects consumers emotional state,drives their purchase decisions and dictates how much they are willing to spend.

EM

10. YOUR SOLUTION

SL

The project aim at the selection of a definite algorithm to predict rainfall concerning the factors that affect rainfall. It is proved that Regression algorithm can be an adaptable strategy for prediction. In this project ,we have studied various algorithms and their reaction to each variable for the target variable. Machine learning can provide us with intelligent models rather than traditional model.The computational power required is also less and maual effort is also reduced.

8.CHANNELS OF BEHAVIR

CH

Machine learning algorithm is used to predict the rainfall data. we going to compare the ml algorithm and which one give the high accuracy .we going train and test the model. The dataset must be free from all kind of noise, inconsistency ,overfitting and odds that may affect the performance of the model.