Problem-Solution Fit canvas

Purpose / Vision
To predict the Length of Stay(LOS) of the patient to get information for optimal resource allocation and better functioning.

Version: 1

Define CS, fit into CL

1. CUSTOMER SEGMENT(S) — CS

Hospitals , Health Care centers ,Nursing Home , Clinics .

6. CUSTOMER LIMITATIONS — EG. BUDGET, DEVICES — CL

--> Knowledge to access the solution developing
--> Highly Confidential persons are allowed to access

5. AVAILABLE SOLUTIONS — PLUSES & MINUSES — AS

The available solution is that predicting LOS of patient using basic Machine Learning algorithms and with comparitively less accuracy.

Explore AS, differentiate

Focus on PR, tap into BE, understand RC

2. PROBLEMS / PAINS + ITS FREQUENCY — PR

1. Unpredictability of Available Resources	5 - Often
2. Lack of Customer Satisfaction	3 - Sometimes
3. Lack of proper management system	2 - Rare

9. PROBLEM ROOT / CAUSE — RC

1. Lack of Management of resources
2. Unexpected Pandemic situations like Covid
3. Intension of caring patients.

7. BEHAVIOR + ITS INTENSITY — BE

1. More Employee to manage system	4
2. Increase the number of available resources	3

Focus on PR, tap into BE, understand RC

Identify strong TR & EM

3. TRIGGERS TO ACT — TR

When customers got informative ideas regarding the system and understanding the helpfulness of it in highly pandemic situation like Covid.

4. EMOTIONS — BEFORE / AFTER — EM

BEFORE:
--> Frustation to manage resources

AFTER:
-->Ease in management

10. YOUR SOLUTION — SL

The Length of Stay(LOS) of the patients depends on the major factors such as type of disease, age and severity . The data is pre-processed first according to the most important details from the dataset. The dataset is explored and visualized and then using the techniques of ensemble algorithms consisting of many decision trees prediction model is developed.

8. CHANNELS of BEHAVIOR — CH

ONLINE

1. More Employee to manage system

OFFLINE

.1. More Employee to manage system

2. Increase the number of available resources

Extract online & offline CH of BE