who are suffering from liver disease.

The target customer of our project is the patients

Especially people with the age limit 40 - 60

# ပ္ပ fit into

# 1. CUSTOMER SEGMENT(S)

suffers a lot.

CS

#### 6. CUSTOMER CONSTRAINTS

make use of it

CC

#### 5. AVAILABLE SOLUTIONS

AS

Many people has suggested many solutions to overcome the problem of predicting the liver disease earlier with higher accuracy. The suggested solutions are:

- 1. Logistic Regression
- 2. SVM
- 3. Decision Tree
- 4. Linear Regression and so on..

## 2. JOBS-TO-BE-DONE / PROBLEMS

J&P

The problems encountered while analyzing the solution is as follows:

- 1. first and the major one that is accuracy - how accurate our model predicts the output, because this ideation deals with human's life so it should be more accurate.
- 2. The second problem is the parameters consider for the prediction of output as different liver disease has different parameters to be considered.
- 3. The last problem is that the classification of liver disease as there are numerous different liver diseases.

#### 9. PROBLEM ROOT CAUSE

RC

The root cause of the problem is the dataset because acquiring a proper dataset is a challenge.

As we are proposing an application to analyze

and predict the the liver disease, people who live in

area with low quality network connection becomes

unable to access the application and make use of it.

Also people who has no digital/smart devices cannot

Also there are many liver disease and different parameters need to be considered for different liver disease which makes the task difficult.

### 7. BEHAVIOUR

BE

The problems which were faced by the customer while using a mobile application is the response speed, and inaccessible account and so on.

These problems can be addressed under the queries or O/A section and it will be addressed as soon as possible to ensure customer satisfaction.

C

## 3. TRIGGERS

TR

Email Marketing is the initial way to start triggering people to use our application.

Now-a-days, mobile application are the one which is easily reachable to the people in an efficient way.

#### 4. EMOTIONS: BEFORE / AFTER

EM

Before: Sometimes people find it difficult to go to the hospitals especially the elderly people.

After: Like diabetes diagnosis one can check the health of their from their home itself.

#### 10. YOUR SOLUTION

SL

The solution which we are proposing to overcome the existing problem is that:

- 1. Acquiring proper dataset for accurate predictions
- 2. KNN algorithm with fine tuning can be performed to get higher accuracy.
- 3. And SVM can be used to classify the type of liver disease.

This make the prediction accurate and meet up the customer expectations and overcome the limitations of the previous proposed solutions.

### 8. CHANNELS of BEHAVIOUR

In today's life, people expect things that are easily acquirable and accessible. So a mobile application is the one that suits the requirements.

8.2 OFFLINE

The Offline activities that can be provided is that filling out a form in hospitals and predicting the results according to the input given by the users.

EM

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Identify strong TR

Explore AS, differentiate

**Extract online & offline CH of BE**