# **Project Title: Statistical Machine Learning Approaches to Liver Disease Prediction**

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Identify

strong

1. CUSTOMER SEGMENT(S)



6. CUSTOMER CONSTRAINTS



5. AVAILABLE SOLUTIONS



Explore

AS,

differentiate

tap into BE, understand

Customers are the patients who are affected by liver disease and the patients under medical test in hospitals

The constraints are some patients doesn't have smart phones and proper network connection

Pros: Predicting the Disease at the early stage

Cons: sometimes the application makes inappropriate Results

2. JOBS-TO-BE-DONE / PROBLEMS



9. PROBLEM ROOT CAUSE



7. BEHAVIOUR



our proposed system using Machine Learning algorithm helps to predict the disease at the earlier stage which helps the gastroenterologist to give accurate medication The main root cause of the problem are:

The patients are not beware of the Liver disease and there is no proper datasets to Acquire and treat the disease at the earlier stage Patients may refer doctors if they have any clarification or dissatisfaction in their results

Patients can ignore the application if it is not user friendly and showing inappropriate results

3. TRIGGERS



we developed a web application in which the patient information are taken as input and provide a solution for the liver disease affected by the patient

4. EMOTIONS: BEFORE / AFTER



**Before:** The affected patients suffered a lot of struggles like difficulty in finding hospitals especially the elder ones **After:** After finding solutions there is no need of visiting hospitals frequently because of diagnosing the disease at the earlier stage

#### 10. YOUR SOLUTION



Our Project Main moto is to Diagnose the Disease early

To Collect Proper Dataset for Accurate Prediction by using Machine Learning Algorithms such as SVM, CNN etc.

To Develop the Application and make it user friendly for the Patients and give more Benefits to them

### 8. Channels of Behavior



#### Online:

Patients should diagnose the disease using web application

## Offline:

They should Consult Doctors and follow their Advises and Prescriptions properly