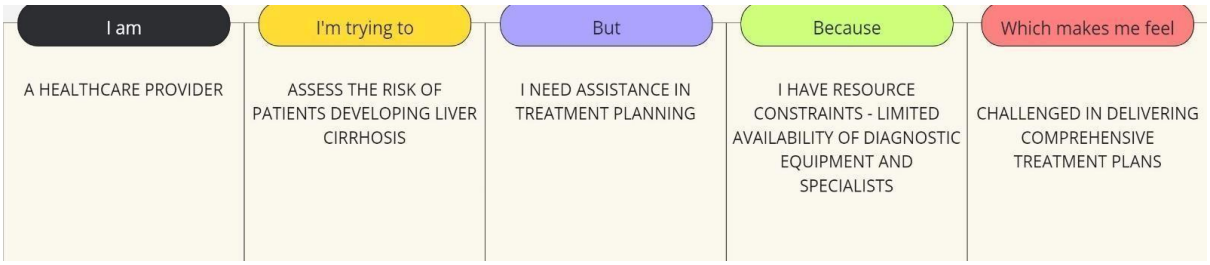
Ideation Phase

Empathize & Discover

Date	29-06-2025
Team ID	LTVIP2025TMID39531
-Project Name	Revolutionizing Liver Care: Predicting Liver Cirrhosis using Advanced Machine Learning Techniques
Maximum Marks	4 Marks

Empathy Map Canvas:

Empathy Map Canvas tailored for your liver cirrhosis prediction project, focused on your primary user: a healthcare professional (doctor or clinician) using the machine learning model.



Empathy Map Canvas:

Empathy Map Canvas – Liver Cirrhosis Prediction System

User Person:

Dr. Anjali, a general practitioner in a tier-2 city, operates with limited diagnostic resources and attends to 20–30 patients daily.

SAYS

- "I want to identify liver issues before it's too late."
- "Many patients don't show clear symptoms in early stages."
- "We need faster diagnostic help in clinics."
- "I'm not trained in complex ML tools or tech systems."

THINKS

- “Will this prediction tool be reliable enough?”
- “I hope it’s easy to use, even for non-tech-savvy staff.”
- “Is the model trained with accurate, real-world data?”
- “If this works, I can save more lives with early intervention.”

DOES

- Collects patient clinical data manually or from lab reports
- Uses basic digital tools like Excel, PDF reports
- Seeks second opinions when unsure about diagnosis
- Refers patients for liver scans after visible symptoms

FEELS

- Frustrated by late-stage diagnosis of serious conditions
- Pressured by time and patient load
- Hopeful about using AI tools to aid decision-making
- Cautious about trusting black-box ML systems

PAINS (Challenges)

- Difficult to detect liver cirrhosis early using just symptoms
- Limited access to advanced imaging or diagnostic labs
- Time-consuming to manually interpret multiple blood parameters
- Concerned about false positives/negatives

GAINS (Needs / Goals)

- Quick and simple tool to predict liver health risk
- Ability to use existing blood test data
- Reliable results that guide clinical decisions
- Cost-effective solution for screening multiple patients