### **Ideation Phase**

## **Define the Problem Statements**

Date: 28 June 2025

Team ID: LTVIP2025TMID41166

Project Name: Revolutionizing Liver Care: Predicting Liver Cirrhosis Using Advanced

Machine Learning Techniques

Maximum Marks: 2 Marks

#### **Customer Problem Statement:**

Create a problem statement to understand your customer's point of view. This helps in building empathetic and impactful Al-powered solutions in healthcare.

### **Problem Statement (PS) Format:**

I am (Customer)

I'm trying to (Goal)

**But** (Obstacle)

Because (Root Cause)

Which makes me feel (Emotion)

#### PS-1

- I am a healthcare professional
- I'm trying to detect liver cirrhosis at an early stage
- But current diagnostic methods are invasive and often rely on visible symptoms
- Because early-stage cirrhosis does not show clear signs and is hard to confirm without advanced testing
- Which makes me feel concerned about missing early intervention opportunities

#### PS-2

- I am a patient with mild symptoms of liver discomfort
- I'm trying to understand whether my condition is serious or treatable

- **But** liver disease detection tests are costly and sometimes inconclusive at early stages
- **Because** access to fast, affordable, and accurate diagnostics is limited
- Which makes me feel anxious and unsure about my health

# Customer Problem Statement Table Example

PS ID	Customer	Goal	Obstacle	Cause	Feeling
PS-1	Healthcare Professional	Detect liver cirrhosis early	Current methods are invasive and rely on late symptoms	Early signs are unclear in traditional diagnostics	Frustrated, concerned
PS-2	Patient	Understand liver health quickly and non- invasively	Tests are expensive and inconclusive at early stages	Limited access to fast and affordable diagnostics	Anxious, uncertain