

Ideation Phase
Define the Problem Statements

Date	27-06-2025
Team ID	LTVIP2025TMID34698
-Project Name	Revolutionizing Liver Care: Predicting Liver Cirrhosis using Advanced Machine Learning Techniques
Maximum Marks	2 Marks

Customer Problem Statement Template:

Healthcare professionals, hospitals, and diagnostic labs treating patients at risk of liver cirrhosis.

They struggle to detect liver cirrhosis in its early stages because current diagnosis methods are either invasive, expensive, slow, or not easily accessible—leading to late detection and poor patient outcomes.

This problem occurs during routine patient checkups or when symptoms have already progressed, especially in clinics with limited diagnostic tools or in rural/low-resource healthcare settings.

Late detection reduces treatment options, increases risk of complications, and adds to the healthcare burden. Early detection could save lives and reduce costs, but there are no simple, data-driven tools in place to support this.

A machine learning-based prediction tool that uses patient data (blood tests, lifestyle indicators, etc.) to alert healthcare professionals early, enabling faster diagnosis, personalized treatment, and better patient care.