

**Project Design Phase**  
**Proposed Solution Template**

Date	27 June 2025
Team ID	LTVIP2025TMID34011
Project Name	<b>Revolutionizing Liver Care : Predicting Liver Cirrhosis using Advanced Machine Learning Techniques</b>
Maximum Marks	2 Marks

**Proposed Solution Template:**

Project team shall fill the following information in the proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Liver cirrhosis is often diagnosed at later stages due to expensive testing and limited access to specialists. Early detection is critical but inaccessible for many.
2.	Idea / Solution description	A web-based AI tool that predicts liver cirrhosis using clinical data like bilirubin, enzyme levels, and age. It provides instant results to assist early diagnosis.
3.	Novelty / Uniqueness	Unlike traditional methods, this solution uses machine learning to offer fast, low-cost, and non-invasive predictions accessible from anywhere.
4.	Social Impact / Customer Satisfaction	It empowers early diagnosis, reduces healthcare costs, and increases survival rates, especially in rural and underserved communities.
5.	Business Model (Revenue Model)	Freemium model: Basic prediction is free, with premium features like PDF reports and consultation suggestions offered as paid services.
6.	Scalability of the Solution	Easily scalable to other diseases and regions by retraining the model with new datasets and expanding the web platform's capabilities.