

**Project Design Phase -I**  
**Proposed Solution Template**

Date	13 October 2022
TeamID	PNT2022TMID08840
Project Name	Statistical Machine Learning Approaches to Liver Disease Prediction
MaximumMarks	2Marks

**ProposedSolutionTemplate:**

S.No.	Parameter	Description
1.	ProblemStatement(Problemto besolved)	We propose a solution to predict liver disease using statistical machine learning and derive the useful insights to patient and doctor to help them in a know about their disease. In hospitals, it is very necessary to treat patients in before hand rather than letting it grow to worse stage.
2.	Idea/Solutiondescription	We propose a solution to build a simple web application which takes input as patient-data and returns us output with the prediction of liver disease affected by the patient. The results will be displayed to the end user in a web page.
3.	Novelty/Uniqueness	The innovative and additional perk to make this solution stronger and the results more reliable, we use machine learning algorithms to develop a predictive analysis model which will be used to make predictions either on the patient's liver disease. Prediction for these results will be shown in the user friendly-manner.
4.	SocialImpact/CustomerSatisfaction	The solution can never go unnoticed, though it is new to the society, because it is in a proactive way of prediction. It will address the concern of the key stakeholders, so it will create the impact in the patient as well as the social side.
5.	BusinessModel(RevenueModel)	The take-away of this project in a business scope of manner is mean to be plenty, it can be beneficial for the users (Patients and Doctors) more intriguing way. It is in need for the community of people, where it comes to handy in day-to-day life. It is a part of the life saving analysis and insights.

6.	ScalabilityoftheSolution	Scalability is the measure of the systemperformance against the increase or decreasein user demand. The system can handle theuserrequestandreturntheresultsontime.It does not require much of the Graphicalprocessor unit; it can be even run on thesystem of both doctor and patient.
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