Project Design Phase-I
Proposed Solution Template

Date	20 September 2022
Team ID	PNT2022TMID24994
Project Name	Statistical Machine Learning Approaches to Liver Disease Prediction
Maximum Marks	2 Marks

Proposed Solution Template:

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

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Early prediction of liver disease is very important to save human life and take proper steps to control the disease. The liver plays an important role in many bodily functions from protein production and blood clotting to cholesterol, glucose (sugar), and iron metabolism. It has a range of functions, including removing toxins from the body, and is crucial to survival.
2.	Idea / Solution description	Our solution is to build a model that helps to reduce the burden on the doctor by analysing patients conditions using machine learning techniques. Use the flask web application and Uses Jinja templating for user and model interaction.
3.	Novelty / Uniqueness	Data set which is include a features of Accuracy, Completeness, Reliability, Relevance, Timeliness. Machine learning algorithms that predict the future with high accuracy. The accuracy of the model was calculated by confusion matrix and other accuracy Calculated methods.
4.	Social Impact / Customer Satisfaction	Since the likeliness of the liver disease is predicted with high accuracy, user will be able to take remedial measures sooner.
5.	Business Model (Revenue Model)	Revenue can be made by collaborating with Hospitals and other health related companies and Integrating subscription services to the application, and another way to make revenue to refer the best and nearest hospital for liver disease that is known as Reference Revenue.
6.	Scalability of the Solution	Accuracy of the model can be increased by training with large data. The model can be made to learn from the user input. Model is deployed in the web where the public from across the world can use to predict the likeliness of liver disease.