IDEATION PHASE

PROBLEM STATEMENT

DATE	23 September 2022
TEAM ID	PNT2022TMID48226
PROJECT NAME	STATISTICAL MACHINE LEARNING APPROACHES TO LIVER DISEASE PREDICTION
MAXIMUM MARKS	2 MARKS

PROBLEM STATEMENT:

Liver diseases avert the normal function of the liver. Mainly due to the large amount of alcohol consumption liver disease arises. Early prediction of liver disease using classification algorithms is an efficacious task that can help the doctors to diagnose the disease within a short duration of time. Discovering the existence of liver disease at an early stage is a complex task for the doctors. The main objective of this project is to analyse the parameters of various classification algorithms and compare their predictive accuracies so as to find out the best classifier for determining the liver disease. This Project examines data from liver patients concentrating on relationships between a key list of liver enzymes, proteins, age and gender using them to try and predict the likeliness of liver disease. Here we are building a model by applying various machine learning algorithms find the best accurate model. And integrate to flask based web application.

I am	The person to predict the liver disease using Machine Learning techniques.
I am Trying to	Use the recent technologies to predict the human liver disease.
But	I am unaware of the existing technology that can help me a lot to predict the disease and I don't know to use the correct technology.

Because	I don’t want to waste the cost and time.
Which Makes me Feel	I want a best accuracy which can predict the disease so that the people can move with their necessary treatments.

Discovering the existence of liver disease at an early stage is a complex task for the doctors. Early prediction of liver disease using classification algorithms is an efficacious task that can help the doctors to diagnose the disease within a short duration of time.

The main objective of this project is to analyze the parameters of various classification algorithms and compare their predictive accuracies so as to find out the best classifier for determining the liver disease. Here we are building a model by applying various machine learning algorithms to find the best accurate model and integrate it to a flask-based web application. User can predict the disease by entering parameters in the web application.