

TEAM ID: PNT2022TMID20879

PROJECT NAME: Statistical Machine Learning Approaches to Liver Disease Prediction

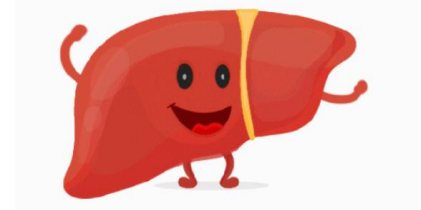
TEAM LEADER[Meenakshi_L]:

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Liver Diseases Prediction

Introduction:

- 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 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.
- 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.
- we are building a model by applying various machine learning algorithms find the best accurate model.
- And integrate to flask based web application.
- User can predict the disease by entering parameters in the web application.



Liver Disease Prediction

Age: Enter the age

Gender: Select Gender

Total_Bilirubin: Range from: 0.4 to 75

Direct_Bilirubin: Range from: 0.1 to 19.7

Alkaline_Phosphatase: Range from: 63 to 2110

Alanine_Aminotransferase: Range from: 10 to 2000

Aspartate_Aminotransferase: Range from: 10 to 4529

Total_Protiens: Range from: 2.7 to 9.6

Albumin: Range from: 0.9 to 5.5

Albumin_and_Globulin_Ratio: Range from: 0.3 to 2.8

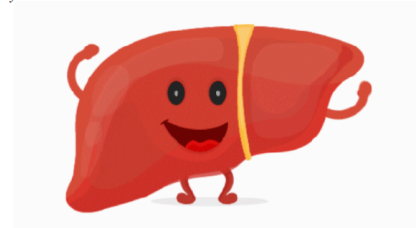
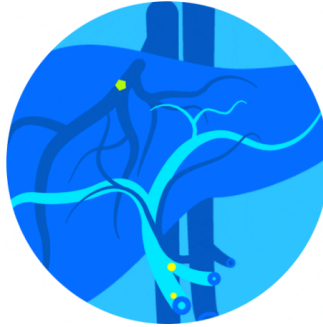
TEAM MEMBER 1[Nithiya_Devi_S]:



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A screenshot of a web application interface for "Liver Disease Prediction". The interface is overlaid on a background illustration of a liver, a magnifying glass, a stethoscope, a pill bottle, and a clipboard. The form contains the following fields and labels:

- Age: Enter the age
- Gender: Select Gender
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- Direct_Bilirubin: Range from: 0.1 to 19.7
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- Alamine_Aminotransferase: Range from: 10 to 2000
- Aspartate_Aminotransferase: Range from: 10 to 4029
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At the bottom of the form is a green button labeled "PREDICT".

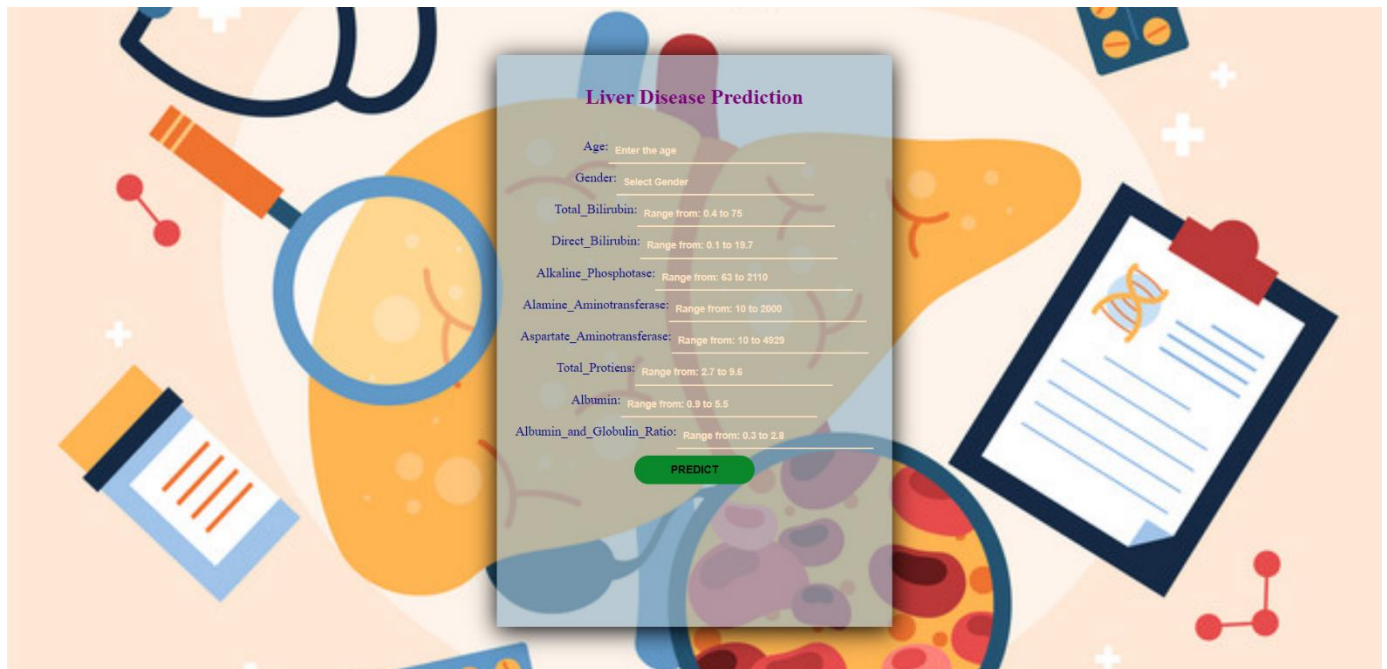
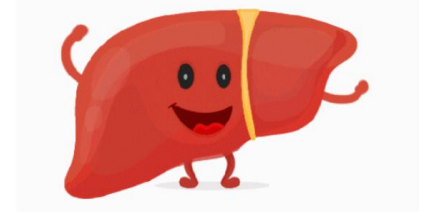
TEAM MEMBER 2[Priyadharshini_K]:

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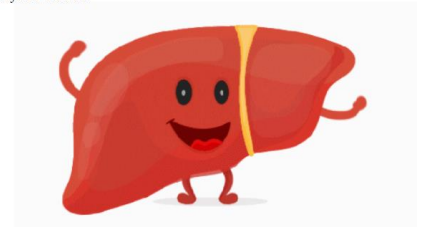
TEAM MEMBER 3[Swathy_K]:

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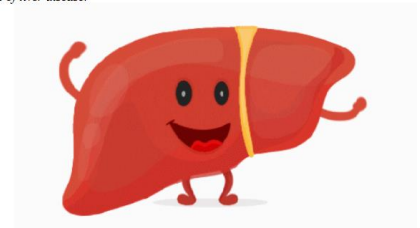
TEAM MEMBER 4[Swetha_M]:

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