 Project Report Template

1. **INTRODUCTION** 
   1. Overview

A brief description about your project

* 1. Purpose

The use of this project. What can be achieved using this.

**2 Problem Definition & Design Thinking**

2.1 Empathy Map

Paste the empathy map screenshot

2.2 Ideation & Brainstorming Map

Paste the Ideation & brainstorming map screenshot

1. **RESULT**

Final findings (Output) of the project along with screenshots.

1. **ADVANTAGES & DISADVANTAGES**

List of advantages and disadvantages of the proposed solution

1. **APPLICATIONS**

The areas where this solution can be applied

1. **CONCLUSION**

Conclusion summarizing the entire work and findings.

1. **FUTURE SCOPE**

Enhancements that can be made in the future.

1. **APPENDIX**

A. Source Code

Attach the code for the solution built.

Project Report Template

INTRODUCTION

Liver diseases averts the normal function of the liver. This disease is caused by an assortment of elements that harm the liver. Diagnosis of liver infection at the preliminary stage is important for better treatment. In today scenario devices like sensors are used for detection of infections. Accurate classification techniques are required for automatic identification of disease samples. This disease diagnosis is very costly and complicated. Therefore, the goal of this work is to evaluate the performance of different Machine learning algorithms in order to reduce the high cost of liver disease diagnosis.

Over view

Early prediction of liverdisease using classification algorithms is an efficacious task that can help the doctors to diagnose thedisease within a short duration of time.

Purpose

In this project we will 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.

Problem Definition & Design Thinking

* Patients with Liver disease have been continuously increasing because of excessive consumptionof alcohol, inhale of harmful gases, intake of contaminated food, pickles and drugs and otherfactors. This dataset was used to evaluate prediction algorithms in an effort to reduce burden ondoctors. Use these patient records to build a prediction model that will predict which patientshave liver disease and which ones do not.
* ADVANTAGE
* Is nutrient dense. Rich in protein, low in calories and packed with essential vitamins and minerals, liver is one of the most nutrient-dense foods available. ...

**DIS ADVANTAGES**

Eating large amounts of liver can lead to symptoms of vitamin A toxicity, which happens when your own liver can't process the excess vitamin A quickly enough. Most doctors recommend that people without vitamin deficiencies eat just one serving of liver per week.

**APPLICATIONS**

* **Blood tests.** A group of blood tests called liver function tests can be used to diagnose liver disease. Other blood tests can be done to look for specific liver problems or genetic conditions.
* **Imaging tests.** An ultrasound, CT scan and MRI can show liver damage.
* **Checking a tissue sample.** Removing a tissue sample (biopsy) from your liver may help diagnose liver disease and look for signs of liver damage. A liver biopsy is most often done using a long needle inserted through the skin to extract a tissue sample that's sent to a lab for testing.

**CONCLUSION**

* This summarized a detailed review on energy efficient technique this study, Based on Random Forest with the highest accuracy outperformed the other algorithms and can be further utilised in the prediction of liver disease and can be recommended to the user.

**FUTURE SCOPE**

* Here we are routing our app to predict() function. This function retrieves all the values from the HTML page using Post request. That is stored in an array. This array is passed to the model.predict() function. This function returns the prediction. And this prediction value will be rendered to the text that we have mentioned in the submit.html page earlier.

APPENDIX