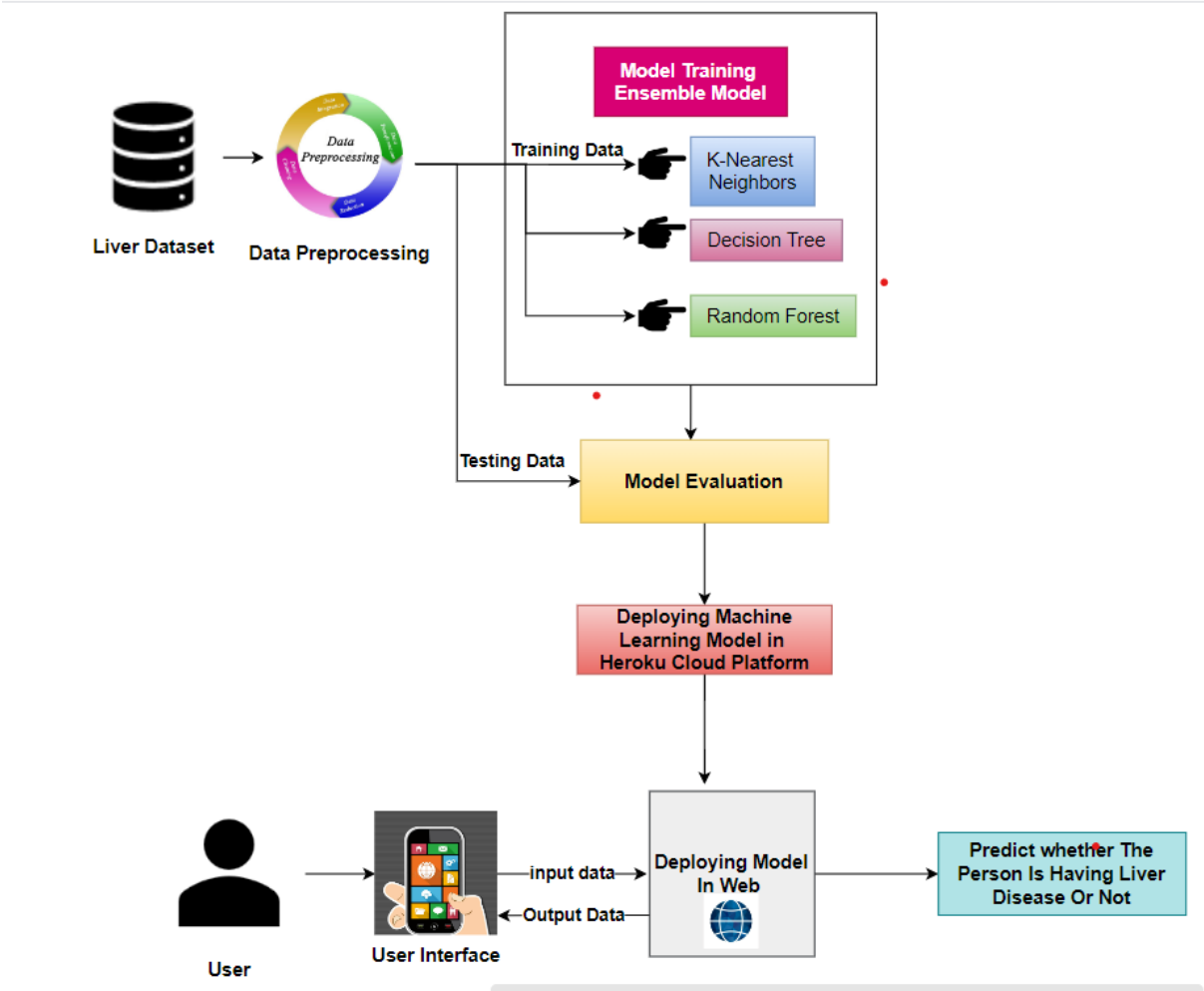
Project Design Phase-I
Solution Architecture

Date	06 September 2022
Team ID	PNT2022TMID52707
Project Name	Statistical Machine Learning Approaches To Liver Disease Prediction
Maximum Marks	4 Marks

Solution Architecture



Project Description

Diseases related to the liver and heart are becoming more and more familiar with time. Although people are becoming more conscious of health nowadays and are joining yoga classes and dance classes, still the sedentary lifestyle and luxuries that are continuously being introduced and enhanced, the problem is going to last long. Nowadays, Liver disease is the

major cause of mortality in the world. The correct prediction of Liver disease can prevent life threats, and incorrect prediction can prove to be fatal at the same time. The prediction of Liver disease is a challenging task, which can offer automated information about the liver condition of patient so that further treatment can be made effective. Machine learning algorithms have been playing a vital role in solving complex, highly nonlinear classification and prediction problems. Further, different machine learning algorithms are ensembled in order to increase the classification and prediction accuracy. Here different machine learning techniques like k-Nearest Neighbours (KNN), Decision Tree (DT) and Random Forest (RF) algorithms have been ensembled using the majority voting technique to predict Liver diseases.