

## **ABSTRACT**

It is a very challenging task for medical researchers to predict the disease in the early stages owing to subtle symptoms. Often the symptoms become apparent when it is too late. To overcome this issue, this project aims to improve liver disease diagnosis using machine learning approaches. The main objective of this project is to use classification algorithms to identify the liver patients from healthy individuals.

Liver disease had become one of the most prominent disease in our country. It has become a challenge to predict the disease of liver in early stage if not diagnosed early stages it become very hard to cure later on. Machine Learning has helped us a lot in the field of medical. In this project, it is estimated that which attributes are important and which are not. The classification techniques are performed in the training dataset. The main aim of the project is to apply various machine learning algorithm decision tree, random forest, SVM(Support Vector Machine), Logistic Regression on the datasets and thus identify whether the patient has liver disease or not.