

Statistical Machine Learning Approaches to Liver Disease Prediction

Problem Statement

Over the last few decades, liver diseases are one of the reasons for a large number of death cases worldwide and have emerged as a life-threatening disease also. By WHO report, around 59% of the mortality and 46% of global diseases are because of chronic diseases and around 35 millions of people worldwide die due to chronic diseases. Now, we are living in the era of information where millions of data are generating from various sources every day. We can use these data to improve our healthcare services or proper identification of diseases. 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.