

STATISTICAL MACHINE LEARNING APPROACHES TO LIVER DISEASE PREDICTION

S.NO	TITLE	AUTHORS - YEAR OF PUBLICATIONS	PROPOSED WORK
1	Statistical Machine Learning Approaches to Liver Disease Prediction	Fahad Mostafa, Easin Hasan, Morgan Williamson and Hafiz Khan. 01/12/2021	This paper aims to extract significant predictors for liver disease from the medical analysis of 615 humans using ML algorithms. The study compared binary classifier machine learning algorithms (i.e., artificial neural network, random forest (RF), and support vector machine), which were utilized on a published liver disease data set to classify individuals with liver diseases, which will allow health professionals to make a better diagnosis.
2	A Comparative Study On Liver Disease Prediction Using Supervised Machine Learning Algorithms	A.K.M Sazzadur Rahman, F. M. Javed Mehedi Shamrat, Zarrin Tasnim, Joy Roy, Syed Akhter Hossain. 11/11/2019	This paper evaluates the performance of different Machine Learning algorithms in order to reduce the high cost of chronic liver disease diagnosis by prediction. Six machine learning techniques have been applied including Logistic Regression, K Nearest Neighbors, Decision Tree, Support Vector Machine, Naïve Bayes, and Random Forest. The performance was evaluated on different measurement techniques such as accuracy, precision, recall, f-1 score, and specificity and the result were that LR achieved the highest accuracy.
3	Liver Disease Prediction System using Machine Learning Techniques	Rakshith D B, Mrigank Srivastava, Ashwani Kumar, Gururaj S P. 06/06/2021	In this paper risk of liver disease for a person is predicted based on the blood test report results of the user. With the dataset used for this project, 100 % accuracy is obtained for SVM model. The programming language which was used is python and machine learning Sklearn was used to build the model using classification algorithm like KNN, SVM, Naive Bayes and ANN.

PROBLEM STATEMENT:

After researching and getting to know about the various approaches that have been devised for the liver disease prediction using machine learning we have decided to propose our problem statement as 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. Here 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.