

Review on Heart Disease Prediction using Machine Learning and Data Analytics Approach

TS Wijesingha, WMKS Ilmini

*Department of Computer Science, Faculty of Computing, General Sir John Kotelawala Defence University,
Ratmalana, Sri Lanka*

Abstract. Nowadays, heart disease is very prevalent and one of the main causes of death worldwide. Compared to the brain, the heart is the next main organ that has greater priority in the human body. In medical diagnosis, an automated system will increase medical performance and reduce costs as well. I will design a system that can accurately define the rules for predicting the risk level of patients based on their health parameters. This study aims to figure out the best technique for machine learning that is both computationally effective and precise for the prediction of heart disease. The implementation of work is done on the UCI Cleveland heart diseases data set to test on four machine learning algorithms such as Naive Bayes, Decision Tree, Logistic Regression and Random Forest. This paper uses above mentioned four machine learning algorithms for comparing the accuracy among them.

Keywords: *Heart Disease, Machine Learning, Naive Bayes, Decision Tree, Logistic Regression, Random Forest*