Survey on Heart Disease Prediction using Logistic Regression

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Abstract: *The health care industries collect huge amounts of data that contain some hidden information, which is useful for making effective decisions. For providing appropriate results and making effective decisions on data, some advanced machine learning techniques are used. Heart disease prediction is one of the most important and challenging task in the modern world.. A Logistic Regression classifier can be used to associate with the vector of random variables to a binomial random variable. In general LR is a special case of a generalized linear model. LR has been successfully used by most of the researchers in this field for the last twenty-five years. The paper provides a survey of available literature of some methodologies employed by different researchers to utilize LR for Heart Disease prediction. The predictive model built using LR approach can make a positive difference in business or organization. In medicinal area, this analytics can be used to predict the likelihood of disease for a given population, which means the preventive measures can be put in the place.*

Keywords: Heart disease, Machine Learning, Linear regression, Logistic regression.

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