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## Heart Disease Prediction Using Machine Learning Techniques

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Abstract: Machine Learning has a wide variety of applications. The medical field is not an exception. Predicting the presence or absence of illnesses like heart disease, Parkinson's disease, and others may be greatly aided by machine learning. If this data can be accurately anticipated in advance, it might provide clinicians valuable insights about how to tailor their diagnosis and treatment for individual patients. We use Machine Learning algorithms to try to foretell the occurrence of heart disease in humans. We analyse existing classifiers and previously proposed classifiers such as Ada-boost and XG-boost to determine which can provide the higher precision, and we propose an ensemble classifier that performs hybrid classification by taking strong and weak classifiers due to its ability to have many training and validation samples

Keywords: Decision tree, Random forest, logistic regression

