

# **Probability of Determining Cardiac Arrest Using Data Mining & Cloud Computing**

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## **Abstract**

The diagnosis of the heart disease is difficult in real world and prediction of heart disease is a major challenge faced by hospitals and medical centers. Classification techniques in data mining play a significant role in prediction and data exploration. The healthcare industry collects huge amounts of healthcare data which is not feasible to handle manually. With the tremendously growing population, the doctors and experts available are not in proportion with the population. Also, symptoms of heart disease may not be significant and thus are often neglected.

The main objective of this research project is to predict the patient getting the heart disease using machine learning algorithms. In order to handle Big Data Hadoop Map Reduce programming is used.

The comparative study of the machine learning algorithms is done and user can view the graphical representation of the results for easier understanding of the comparison. This application is made globally accessible by deploying it on cloud and can be accessed through any browser. It is user friendly, parallel processing is performed on the big data for faster computation. Project can be extended for predicting other diseases also.