LITERATURE SURVEY ON

VISUALIZING AND PREDICTING HEART DISEASES WITH AN INTERACTIVE DASH BOARD

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ABSTRACT

Heart is the next major organ comparing to brain which has more priority in Human body. It pumps the blood and supplies to all organs of the whole body. Prediction of occurrences of heart diseases in medical field is significant work. Data analytics is useful for prediction from more information and it helps medical centre to predict of various disease. Huge amount of patient related data is maintained on monthly basis. The stored data can be useful for source of predicting the occurrence of future disease. Some of the data mining and machine learning techniques are used to predict the heart disease, such as Artificial Neural Network (ANN), Decision tree, Fuzzy Logic, K-Nearest Neighbour(KNN), Naïve Bayes and Support Vector Machine (SVM). This paper provides an insight of the existing algorithm and it gives an overall summary of the existing work.

YEAR	AUTHOR	PURPOSE	TECHNIQUES USED	ACCURACY
2015	Sharma Purushottam et	Efficient Heart Disease Prediction System Using Decision Tree	Decision tree classifier	86.3% for testing phase.87.3% for training phase.
2015	Boshra Brahmi et	Prediction and Diagnosis of Heart Disease By Data Mining Techniques.	J48, Naïve Bayes, KNN,SMO	J48 gives better accuracy than other three techniques.
2015	Sairabi H. Mujawar et al, [24]	Prediction of Heart Disease using Modified K-means and by using Naïve Bayes	Modified k-means algorithm, naive bayes algorithm.	Heart Disease detection=93%. Heart Disease undetection=89%.
2016	Noura Ajam et al, [21]	Heart Disease Diagnoses using Artificial Neural Network.	ANN	88%
2015	Sharma Purushottam et al, [26]	Heart Disease Prediction System Evaluation using C4.5 Rules and Partial Tree	C4.5 rules and Naive Bayes algorithm	C4.5 gives better accuracy than Naive Bayes.
2016	S. Seema et al, [9	Chronic Disease Prediction by mining data.	Naïve Bayes	Highest accuracy achieved SVM, in case of heartdisease 95.56%
2017	Jayami Patel et al,[14]	Heart disease Prediction using Machine Learning and Data mining Technique.	LMT,UCI	UCI gives better accuracy, compared to LMT.
2018	R. Sharmila et al, [13]	A conceptual method to enhance the prediction of heart diseases using the data techniques.	SVM in parallel fashion	SVM provides better and efficient accuracy of 85% and 82.35%.
2017	P. Sai Chandrasekhar Reddy et al, [17]	Heart disease prediction using ANN algorithm in data mining.	ANN	Accuracy proved in JAVA.