**ABSTRACT**

**HEART DISEASE PREDICTION USING SVM**

Heart disease prediction using data mining is one of the most interesting and challenging tasks. The shortage of specialists and high wrongly diagnosed cases has necessitated the need to develop a fast and eﬃcient detection system. According to past system the integration of clinical decision support with computer based patient record can reduce medical errors, can be made more precise and hence enhance patient safety. We are providing a system which can help for prediction of heart disease by considering risky factor associated with heart disease. Here system applies support vector machine algorithm on historical information/data of patient and it provides features like Age, Sex, Smoking, Overweight, Alcohol Intake, Bad Cholesterol, Blood Pressure and Heart Rate to make prediction of coronary heart disease with higher accuracy is done.

An Android based prototype software has been developed by integrating clinical data obtained from patients. Android app integrated with the prediction system to get best results.