**An Approach to forecasting multiple diseases utilizing machine learning algorithms**

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Today, machine learning is applied in all fields. Machine learning plays an important part in healthcare. "An Approach to forecasting multiple diseases utilizing machine learning algorithms" system is based on predictive modelling that predicts the user's disease based on the symptoms that the patient enters into the system. Many existing machine learning applications for health analytics focus on only one disease. There is no unified system where one model can predict more than one disease. This article proposes a system that predicts several diseases in a single system. This publication offered to analyse diabetes analysis and heart disease. This project proposes a support vector machine (SVM) as the backbone of computational diagnostic tools instead of Naïve Bayes algorithm for more accurate prediction of heart disease risk levels. SVM modelling is a promising classification method to predict medication adherence in Cardiovascular disease (CVD) patients. Bagging and boosting methods using Decision Tree Boosting (DTB) algorithms were applied to experimental data to predict early diabetes risk. Random forest classifications were chosen for the bagging method. Later, other diseases such as skin diseases, fever analysis and many other diseases can be included. In the analysis of several diseases, machine learning algorithms were used to analyse all disease-causing parameters to identify the maximum effect caused by the disease. This approach can help many people because the condition of people can be monitored, and necessary precautions can be taken which will increase the life expectancy.

Keywords –Machine Learning, SVM, DTB