

DIABETES PREDICTION SYSTEM

Abstract

The primary objective of this project is to develop and evaluate machine learning based system capable of accurately and efficiently identifying the diabetes predictions based on data. Diabetes mellitus, a chronic metabolic disorder characterized by elevated blood sugar levels. This is the big Health challenge disease in the world wide. Day by day this disease increseing rapidly due to changing lifestyles, unhealthy food habits and over weight problems. The purpose of this project is to develop a system to predict the probability of having diabetes, if the probability is more than 50% we can take treatment before It becomes critical. Diabetes can be controlled if we predict it earlier. In this project we predict the probability of having the diabetes based on the value of the glucose, pregnancies, Blood Pressure (BP), Skin Thickness, Age Insulin, BMI by applying various Machine learning Algorithms like Support Vector Machine (SVM), Logistic Regression etc.