Medical Insurance Prediction

Introduction

Overview:

In this projectfor the given data set with information about clients which have earliertaken the medicalInsurance premium, the task is to collect insights of data, plot the attributes and finally develop a machinelearning model which can predict the charges for given input. Data consists ofseveral attributes like age, sex, bmi etc. The charges are the class for which training is done. As this is a regression problem, here I've been using java for developing with the help of weka api. ln this I have used a machine learning algorithm for supervised learning. For this the data is split into test and trainingsets with ratio 3:7, and models are trained on the training data. Test data is used for the compute the performance of the model.

Purpose:

This will help people and insurance companies to know how the various conditionslike age, bmi, smoking or not etc. affect the charges of the premium and help to predict the charges for given conditions. This could also beused to know which factors one can work on to reduce the charges.

Literature Survey

Existing methods:

Charges vary from company to company and they have their parameters, charges which are made up of collected data. Here they use clients