Methods And Techniques Used

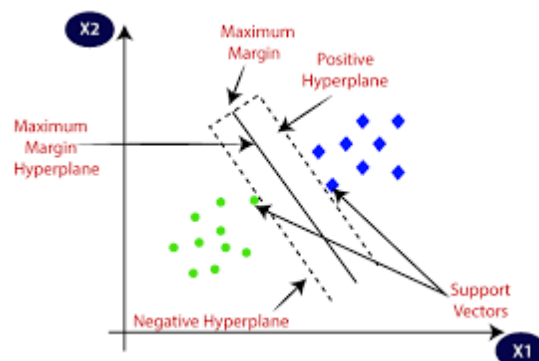Google Colab Link:

Naive Bayes Algorithm

A naive bayes algorithm is a classification algorithm for unsupervised learning but it can be used for predication and regression problems as well.

The algorithm basically works on the principle of bayes algorithm of probability. Bayes theorem predicts the probability of an outcome given any other outcome which has already been occurred.

It assumes that all the outcomes are independent of each other and finds the probability accordingly.

Support Vector Machines

Support Vector Machines can be used for both regression as well as classifier algorithms. It divides the data into two or many parts with the help of using hyperplanes. The dimension which is n-dimension planes changes according to the features and the data available. It is a widely used and successful machine learning model.

Random Forest Algorithm

Random Forest Algorithm is a decision tree where the algorithm makes decision after each point of time and then leads to another node of the tree where again the mode must make a decision usually pointing to two directions.

Many unrelated trees and algorithms cam together to form a large tree called Random Forest and then work together to predict a certain factor or a variable.