Abstract

In the field of healthcare and medicine, several precautions should be taken by the healthcare professionals when prescribing drugs for patients. The side effects and effectiveness of drugs depends on the characteristics of patients such as age, gender, lifestyle and genetic profile. Existing techniques does not consider the side effects of drugs effectively with respect to the patient’s personal medical profile. The goal is to provide a tool to assist the professionals and patients in finding and choosing the right drug using data mining technique. A hybrid approach is used which combines graph based approach and SVM algorithm to get even more effective drug Prediction. Graph based approach is used for disease prediction and as level 1 drug retrieval process and for further optimization we apply SVM Learning algorithm to predict the side effects association of the drug.

References


Index Terms

Computer Science

Algorithms
Keywords

Graph based approach, SVM Learning Algorithm, Disease Prediction, Drug Prediction.