Abstract

Now-a-days the volume of educational data stored in educational database is increasing rapidly and these databases comprise hidden information for improvement of students' performance. Therefore we need computational methods to study the data available in the educational field and bring out the hidden knowledge from it. In this study, the experiments were conducted for the prediction task of educational data obtained from UCI Machine Learning repository using the five machine learning algorithms. The feature selected is used for training and testing of each classifier individually with ten-fold cross validation. The results obtained show that the ROF classifier outperforms other classifiers in terms of Area under the ROC curve (AUC), accuracy and MCC respectively.

References


Index Terms

Computer Science

Algorithms

Keywords

Accuracy, Machine learning, Rotation forest, students’ performance, UCI Machine Learning repository