

By this above information, one can predict the student performance in his final grade by his behaviors' and term exams scores. Especially grade 1 and grade 2 plays main role in student's performance and the factor absences due to health issues lead a student to fail.

4. CONCLUSION

In this paper, student's performance data has taken for an experiment to find out the effectiveness of rough set theory in the prediction. Because the earlier researcher also dealt with the same data in order to find the prediction. In that case they used Random forest and SVM algorithm to derive the rules by decision trees by employing Rminer tool. Here in our experiment we used Rough set approach which reduced the size of the attributes without loss of information. With the minimum number of attributes we could derive the decision rules which provide us the useful information about the student's performance. Here the decision rules are precise than the rules found in [Cortez *et al*]. Ignorance of some variables (eg. Parent job, reason to choose school) not related to student performance helps to predict their performance to better accuracy.

Also the classification accuracy was improved by the reduction concept of rough set theory that assures the decision rules consistent. This proves in the matter of prediction, the Rough set theory approach for data analysis is the simpler and efficient than other algorithms. RST is a useful tool for analyzing big datasets and classification which has multivariate attributes. This research will extend to the more application area of the Rough set theory in future.

ACKNOWLEDGEMENT

The first author would like to thank of AMET University for the support and the encouragement for this research work.

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