

Abstract Details

Title: Enhanced Teacher Performance Evaluation Model using RareDTree Algorithm

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Abstract: Data mining techniques are widely used in decision making process across the different area. Educational Data Mining (EDM) system has challenging problem of teacher performance evaluation. Most of the existing studies of teacher evaluation are based on traditional classification algorithm which produces biased result. They neglect the rare but vital factor of complexity of subject and less attendance of student in evaluation process. Students survey based teacher performance evaluation system suffers from biased feedback of students. Usually students give negative feedback to the teachers who taught tough subjects. Most of the existing prediction studies ignore such rare but important factors. Improper evaluation of good teacher decreases the quality of education system. In our study we used RareDTree algorithm for unbalanced data classification and compare its result with existing studies. We found noticeable improvements in accurate teacher performance evaluation as compared to the other recent methods.

Keywords: EDM, Unbalanced data, Classification, Prediction, RareDTree, Machine learning.