



Evaluation of Teacher's Performance: A Data Mining Approach

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Abstract— Most Organizations use performance appraisal system to evaluate the teacher's performance. The teacher's performance is very important to the students and as well as college management, in which usually involves crisp and uncertain values to evaluate teacher's performance. In this paper we proposed to evaluate teacher's performance on the basis of different factors, using data mining techniques, Data mining is the powerful technology for analyzing important information from the data warehouse. It is data analysis methodology used to identify hidden patterns in a large data set. We can consider some of the most relevant factors, and develop rules using data mining techniques.

The idea proposed in this paper is to perform an analysis considering number of parameters for the derivation of performance prediction indicators needed for teachers performance assessment, monitoring and evaluation. The aim is to predict the quality, productivity and potential of faculty across various disciplines which will enable higher level authorities to take decisions and understand certain patterns of teacher's motivation, satisfaction, growth and decline. The analysis depends on many factors, encompassing student's feedback, organizational feedback, institutional support in terms of finance, administration, research activity etc. The data mining methodology used for extracting useful patterns from the institutional database is able to extract certain unidentified trends in teacher's performance when assessed across several parameters.

Keywords— Performance Appraisal; Teacher; KDD; ID3; CART and LAD

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