Term Project Proposal

Project Title: Instructor Assessment System

Team members: Pratik Jaiswal (single)

Description:

Main problem being addressed:
To analyze opinion of students about their instructors in an Instructor Assessment System. The main goal of this project will be gathering manageable experiences with data mining and also using these experiences at learning system in evaluation of instructors. This analysis can be done using data mining tools like weka/scilearn.

In this project, instructors will be evaluated by the students using data mining and further prediction of whether instructors will be invited to faculty classes or not can be done will evaluate instructors. In other words, this will help in predicting which teachers will be refused by education managers due to evaluation reasons and will cut the education contract with these teachers in next semesters.

Dataset will have instructor's information such as assessment score, instructor's degree, degree type, instructing experience, and acceptance for next semesters (after evaluation). For instance: Assessment score can be good, excellent, bad, etc. Degree can be MTECH, ME and so on. Experience can take true or false values. In instructor evaluation system, clustering has been used to group the teachers according to their behavior e.g. clustering can be used to distinguish active teacher from non-active teacher according to their performance in activities.

Why interested?
Instructor assessment is an important aspect since students are expected to get best instructors in their education system. That is why, it is necessary for education managers to predict their score every semester so that they can decide whether to continue them in next semester or not. So, a technique of data mining can prove helpful in this case.

Obtaining data:
In this project, web-based survey can be done on students to get their feedback about instructors and then, they can be evaluated. Also, records can be obtained from certain educational systems.

Learning goals:
- Learn about educational data mining
- Hands on WEKA/Scilearn
- Understanding data - identifying sources
- Preparing data - preprocessing, cleaning, transforming (if necessary) to make the data compatible with a data mining algorithm/tool
- Application of classification, association rule