Using Data Mining Techniques to Evaluate the Different Factors Affecting the Academic Performance of Students at the Faculty of Information Technology in Hashemite University in Jordan

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Abstract : This research studies the different factors that could affect the Faculty of Information Technology in Hashemite University students' accumulative average. The research paper verifies the student information, background, their academic records, and how this information will affect the student to get high grades. The student information used in the study is extracted from the student's academic records. The data mining tools and techniques are used to decide which attribute(s) will affect the student's accumulative average. The results show that the most important factor which affects the students' accumulative average is the student Acceptance Type. And we built a decision tree model and rules to determine how the student can get high grades in their courses. The overall accuracy of the model is 44% which is accepted rate.

Keywords : data mining, classification, extracting rules, decision tree