

Universiti Teknologi MARA

**Development of a Prototype Application to Detect Bad
Behaviour Pattern**

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Abstract

Bad behaviour can be prevented by knowing their behaviour patterns before the problem occurs. Data mining is one way that can help in predicting or identifying the patterns behavior of certain individual that is involved in terrorist activity. Data mining is a process of finding hidden information and patterns in databases. One of the tasks for data mining purposes is classification refers to assigning cases into categories based on a predictable attributes. This method can be applied to detect patterns of bad behaviour UiTM students. By using auto discretization and rules compositions based on table and decision tree, classification method of data mining can be applied to the prototype application. This project is developing a prototype application to identify patterns of bad behavior among student in Universiti Teknologi Mara (UiTM), Shah Alam. The data is obtain at Unit Tata tertib UiTM Shah Alam. There are 98 data collected from year 2006 to 2007 which consist of the student data attribute that is age, gender, faculty code, semester, year, type of offence and the case status. A test has been done to validate the rules generated in the process. The result also shows the patterns of behavior that is acquired. The result

Keyword: Data Mining, Classification Methods, Bad Behaviour, Pattern detection, Decisions Tree, Discretizations

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