

ABSTRACT

EPrT (English proficiency test) is an English proficiency test that must be followed by all students at Telkom University. The problem that is often encountered by students and students is in the selection of EPrT test paths that are in accordance with each individual's English proficiency. In 2018 there were 970 students of the Industrial Engineering Faculty (FRI) who took the EPrT test with a total of 268 graduations and 702 others did not pass, the purpose of this study was to classify students who passed and did not pass based on the history of the test track EPrT, Study Program, gender, and the final results of the EPrT test use the data mining classification process with the decision tree algorithm method.

C4.5 decision tree algorithm method is used in this study with the aim of getting a rule that will be implemented into the EPrT test path recommendation system based on historical data of each student and student. The recommendation system created is expected to provide test path recommendations in accordance with the individual abilities of each student and student.

The result of total accuracy obtained from the decision tree produced is 45.302%. The web-based EPrT test route selection system utilizes rules obtained from the decision tree. With this system of recommending the selection of EPrT test paths can help students in determining the path of the EPrT test to be taken.

Keywords: EPrT Test, Data Mining, Decision Tree (C.45), Web