

Analysis of Girls Vocational High School Students' Academic Failure Causes with Data Mining Techniques

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ABSTRACT In this paper, factors that affect the failure of students at the Vocational High School for Girls were studied and a survey was performed to determine these factors. Since the collected data formed a large database, a data mining technique was used to more easily establish the correlations and rules. Based on content of the data and the subject of the study, the clustering method was selected as an evaluation tool. The collected data were separated into three clusters. Each cluster was investigated to determine the factors that play a role together in students' failure, as well as the relations between them. Finally, the findings of the applied survey, taking into account the work aimed at reducing the causes of failure, are expressed.