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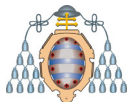
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PREDICTION OF THE STUDENT SUCCESS RATE BY MEANS OF QUALITY TEACHING SURVEY VARIABLES APPLYING A MULTIVARIATE ADAPTIVE REGRESSION SPLINES (MARS) MODELS.

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Abstract.

The present research applies a multivariate adaptive regression splines (MARS) model to predict the success rate of students, employing a set of variables obtained from a quality teaching survey.

The survey measures student satisfaction as regards quality of teaching. The data correspond to the academic year 2008-2009 at the University of Oviedo. This survey has been conducted by the University of Oviedo Technical Quality Unit each year since 2001.

The aim of the present research paper was to calculate a forecast model able to predict the success rate of the students in each subject using some of the items of the quality teaching survey referred to above as predictive variables. The results show the existence of a clear relationship between student perception of lecturer performance and the student success rate.

Keywords:

Quality Higher Education, Quality Teaching Survey, Multivariate Adaptive Regression Splines Model, Success Rate of Students, Academic Achievement, Satisfaction.

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