

## The influence of socioeconomic factors on the dropout of UNIFESP students

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**Abstract:** *Evasion is a complex phenomenon that occurs in all types of educational institutions, which generates social, academic and economic consequences, affecting the human development of all nations. Given its importance, it is necessary to investigate the reasons, causes and impacts of students dropping out from education systems. This work aims to build a statistical model using Bayesian logistic regression, which identifies the socioeconomic profile of dropout students who joined the Federal University of São Paulo (UNIFESP) between the years 2012 and 2016, from each campus. In order to, the bank was improved and adjusted, and the variables with historical data from 2012 were selected and then the modeling was started, analyzing the historical graphs, the autocorrelation and the marginal density of the chains generated in the inference, all of them being as expected. For each campus, a different model was fitted, where they obtained accuracy between 56% and 66%. The models had a low predictive capacity indicating that the socioeconomic profile of the student entering the university has little influence on the decision of the students to give up the university. Since there were significant changes in the socioeconomic profile of incoming students in 2016, it is supposed that a new period of analysis (students starting in 2016) could be considered to improve the predictive capacity of the model.*

**Keywords:** Student dropout, Bayesian logistic regression, student permanency support.

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