

ESTIMATION OF PERSISTENCE AT A COMMUNITY COLLEGE: A COMPARISON OF ALTERNATIVE MACHINE LEARNING MODELS

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ABSTRACT

This research focuses on developing persistence models for Rio Salado College. It is an initial effort to predict persistence from one term to the next. Several ensemble models are experimented and compared in their respective key metrics such as: confusion matrix, AUC, F1-Score, and feature importance. Exploratory data analysis is undertaken to narrow the set of variables utilized in the models. Two models were considered for possible implementation: a logistic regression and a gradient boosting machine. The former is easier to implement and explain to non-technical personnel, while the latter behaves like a black box. Based on key performance metrics, the model of choice was the gradient boosting machine. Development and testing were conducted with python using jupyter notebooks. The author hopes that this experimental process will fill a vacuum in the analytical needs of community colleges.

KEYWORDS

accuracy, AUC, confusion matrix, ensemble models, feature importance, gradient boosting machines, Machine Learning, persistence, precision, recall

1. INTRODUCTION

In the current economic conditions, academic institutions continue making efforts to adapt to the student needs. The pandemic surge followed by high levels of unemployment has made remote working and learning necessary alternatives for both workers [2], [3] and students to continue providing for their families and enhancing their working and academic skills, respectively.

In previous recessions, higher education institutions experienced countercyclical enrolment increases, but during the current COVID driven recession that has not been the case. Higher education is currently having to reduce personnel or put on hold additional hiring and is suffering from enrolment declines due to the pandemic and degrading economic conditions, [15]. According to [22], overall enrolment is down by 3% with freshman enrolment being down to 13%. These declines are more severe for 2-year colleges than for 4-year institutions. Community colleges according to [23] data are experiencing a 19% decline with a pronounced decline among students of colour. Moreover, a recent survey conducted by an education marketing company [14], among 528 students across the U.S. concluded that 43% of prospective students for one and 2-year programs are considering delaying enrolment. Other findings of the survey were: 54% of traditional age students considered having a degree or certificate extremely valuable; 65% of non-traditional students because of the pandemic thought that a degree or certificate was extremely valuable. Considering these facts, by necessity educational institutions are increasingly creative in trying to retain and support their enrolled students. The prolonged pandemic and the sudden

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