

Learning the Student's Happiness Model

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Abstract

In every country, students are affected by some factors that can make them happy or unhappy. Some students tend to be happier than other ones but what are the real reasons for this situation? Someone could say that personal issues affect students; it happens but this is not just the only factor. Others could say the job perspective of the course which is also true. Other researchers have also tried to identify these factors and lots of money and effort has been put in order to improve the life of every student.

This project is named "Learning the Student's Happiness Model" and it aims to discover some critical factors that make students happy during their studies. The main purpose of the project is to identify which are the most important factors that influence students examining at the same time the current state of each factor. The project is vital in order to improve the studying period of the students having in mind the factors that have a major impact on them. Initially, the factors that are going to be investigated were identified. Using the factors, the next step was the questionnaire design which was then given to students in order to collect data.

The data was analyzed using machine learning techniques and computational intelligence. Some techniques that are being used are Linear Regression, Decision Tree, Clustering, Neural Networks and Expectation Maximization. The techniques mentioned are used in experiments using the data collected, separating some of them in order to analyze the results based on different columns. Using these techniques, the overall goal is to create a mathematical relationship and using that a model about student's happiness will be constructed.