

EDUCATIONAL DATA MINING THESIS

learning environment is called Educational Data Mining (EDM), which has proven A Thesis. Presented To the Faculty of the Department of Computer Science.

The models developed will be supported by data mining techniques and markov chains. This project aims at exploring the use of educational data e. Present paper is designed to justify the capabilities of data mining techniques in context of higher education by offering a data mining model for higher education system in the university. Summaries of all theses must be published and made freely available on the HSE website. This will contribute to the achievement of satisfactory levels of attainment. The full text of a thesis can be published in open access on the HSE website only if the authoring student copyright holder agrees, or, if the thesis was written by a team of students, if all the co-authors copyright holders agree. The knowledge is hidden among the educational data set and it is extractable through data mining techniques. Furthermore, this project aims discussing the main factors that underlie academic performance. Data mining tools predict behaviors and future trends, allowing decision makers to make proactive, knowledge-driven decisions. After a thesis is published on the HSE website, it obtains the status of an online publication. The Agency has promoted the establishment of internal quality assurance systems, fostering the creation of a systematic collection of data that may enable to identify the main constraints and problems, enhancing the decision-making process. In this context, in the last decade it has been conducted a deep analysis, particularly on higher Education, which forced the evaluation, review and reformulation of the processes used to guarantee the quality of the education services provided. Data mining is a computer-assisted process of digging through and analyzing enormous sets of data and then extracting the meaning of the data. For understating will this student continue his education in university is KNN. Key results that we received in our paper is that for predicting will student pass this exam or not best technique is Random Forest. In Portugal, this reflection has been encouraged by the publication of a legal framework on quality assessment in higher education and the creation of the Agency for Assessment and Accreditation of Higher Education "A3ES. Furthermore, education has the ability to change and to induce change and progress in society. Currently, high education institutions have made a big effort and investment on creating systems to collect education related data. Student Theses at HSE must be completed in accordance with the University Rules and regulations specified by each educational programme. Having a better understanding of which students are more likely to face difficulties in their educational process and identifying the factors that influence these difficulties, higher education institutions will be able to timely develop strategies to increase the graduation rate and mitigate their attrition rates. However, institutions have not been able to analyze this data and turn it into valuable information. Students are studying in Higher School of Economics on a Business-Informatics faculty on department of applied mathematics and cybernetics. Education provides children, youth and adults with the knowledge and skills to be active citizens and to fulfil themselves as individuals.