Analyzing Student Strategies In Blended Courses Using Clickstream Data

Title, Authors, Source, Year

Summary:

This paper discusses an approach to analyse student strategies to give an insight into students "study behaviours and drivers for success". The paper utilises strategies uses in NLP and pattern matching to understand the student's interaction and extract frequent strategies. Data is broken down into clickstream sessions which represent study sessions. Performance data is also used which is measured by homework, exam grades and lecture and recitation attendance log. Two methods are used in the paper to classify student strategy. These included Clustered n-gram method and LDA method. The results show that there is some success in predicting homework grade outcome. The use of hybrid NLP methods has also been shown to "thoroughly analyze contexts of actions as well as frequent strategies in the relatively low-data setting of blended courses.".