

# Student learning analytics with clustering algorithm in an open dataset

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## Abstract

The increases in using technology in education brought us a large amount of learning data. This became an opportunity to explore the data analysis in the education context with machine learning. Therefore, educational data mining became an emerging discipline in Artificial intelligence. Due to the importance of data analysis with machine learning, many big companies and educational institutes post their learning data in MOOCs or LMSs online. For example, MOOC Edx learners' data from Harvard, MIT. In this paper, the datasets of Open University, UK, 30 000 students, and over 1 million learning activities, will be used for clustered machine learning, and it will be evaluated and concluded.

*Keywords:* clustered machine learning algorithm, educational data mining, learning analytics