## Adaptive Education System AI Technology

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phasizes the importance of individual dif- in two ways once acquired. The first is the ferences in modeling the ideal online learn- pedagogy that informs experts and designing environment. Identifying and catering ers of adaptive education systems. These to the needs and capabilities of individual reflect the dynamic self-learning ability of learners is the key to successful provision of an adaptive e-learning system. Adaptive education systems must have these skills in improvement in lifelong learning mode. Edorder to provide their users with appropriate learning methods and content. Therefore, on the basis of analyzing their emotional state, level of knowledge, personality traits and skills, it is very important to create accurate student profiles and models. This data must be used effectively to processes. Therefore, it is necessary to redevelop an adaptive learning environment. view and review existing and related topic The data obtained must be effectively used learning environments, such as large-scale and utilized to develop an adaptive learn- open online courses, educational data mining environment. As shown in Figure. 1, ing, learner analysis and related artificial in-

The adaptive education system em- these learner models and data can be used teacher student behavior. These learning capabilities will ensure learner and system ucational data mining and learner analysis are the two main overlapping areas and may be very effective in producing this capabil-Artificial intelligence models do not ity. have these capabilities because they can develop and imitate human decision-making telligence technologies.

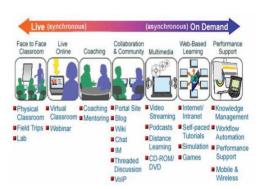


Figure 1: Asynchronous and synchronous learning settings

This open learning system of a large number of open online courses can quickly become popular. Any open online course must have two functions: it must be free and open to any user. Recently, some well-known universities and colleges including Stanford University and Harvard University have used open online courses for learning. The number of users that can be registered in any course can range from thousands to millions, that is, they can have a large number of users. The main challenge for open online courses is to collect large data sets from interactions between students and the learning environment and combine them with artificial intelligence techniques to gain insights into adaptive human learning. If we can use these technologies to predict success, then the most important factor is that analysis can be used to power personalized systems that are based on the learner's collection behavior and the preferences of the adaptive behavior of past student data sets. demand. It is understood that the number of students attending large-scale open online courses is high, and the completion rate of these courses is less than 13%. The analysis of learners driven by adaptive education learning can help solve problems. Learning interaction analysis is not just theory of motivation for learning; it is to help students gain feedback on their performance and learning style. However, despite the ability to learn analytical techniques and tools, there is still a need for artificial interpretation of the data.

Educational data mining and learner analysis of various learning management systems can provide e-learning courses. These courses have salient features of a large amount of data available in compiled form. Each step of the process is deter-

mined by the student's personal attributes and his performance evaluation. Prepare technology to explore the specialized forms of information received from the education sector and apply the technology to increase understanding of students and their environment for absorbing knowledge. According to the study of learning analysis, learning analysis is defined as the compilation, quantification, analysis, and relationship between information-independent students and their personal characteristics. That is, the learning process can be well understood and improved, along with the environment in which it occurs. <sup>1</sup>

## References

[1] Khalid Almohammadi etal. A Survey of Artificial Intelligence Techniques Employed for Adaptive Educational Systems Within E-Learning Platform, [J] .2017,46-64.

<sup>&</sup>lt;sup>1</sup>from" A Survey of Artificial Intelligence Techniques Employed for Adaptive Educational Systems Within E-Learning Platform"