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Cognitive education

1 21 million children are out of school worldwide. 40% college students do not graduate after six years. The US student debt has risen to over 1.3 trillion dollars. Access, outcome and cost are the key challenges to the society which have ignited rapid transformation in the education industry. This article reports the latest development in the application of Artificial Intelligence (AI) to education solutions in 3 dimensions: Content enrichment, student insight and personalized learning delivery. Machine learning is shifting traditional digitized learning content towards self-descriptive learning packages. They are learner aware, commerce aware and standard aware. In the student information dimension, AI is enabling educators to gain greater insight into student learning style, predict performance risk and prescribe personalized remediations. Natural Language Processing (NLP) analyzes student dialog with intelligent tutoring solutions to assess students' competency mastery and matches it with pedagogical models to deliver personalized learning at anytime, anywhere and judgment free. The exciting new learning science development in the application of machine learning to study the brain wave (EEG) in a virtual reality environment is also discussed.

Biography

Lin Zhou has obtained his PhD degree from the University of Glasgow, UK. He is currently the Program Director of Cognitive Education at Watson Education of IBM. He leads the R&D of intelligent tutor and cognitive cloud fabric by developing and applying artificial intelligence capabilities. He has broad patents and publications to his credit.

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