

# 5<sup>TH</sup> WORLD MACHINE LEARNING AND DEEP LEARNING CONGRESS and WORLD CONGRESS ON COMPUTER SCIENCE, MACHINE LEARNING AND BIG DATA

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## How big data and analytics can enhance e-learning

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With the advent of internet and communication technology the penetration of e-learning has increased. The digital data being created by the educational and research institutions is also on ascent. The need for using big data to handle, analyze these large amount of data is prime. Many institutions (universities, laboratory) are using analytics to improve their process. Big data analytics when applied onto teaching, learning process might help in improvising as well as developing new paradigms. In this perspective, this paper investigates the most promising applications and issues of big data for the design of the next-generation of massive e-learning. Specifically, it addresses the methodological tools and instruments for the future of e-learning in the area of data analytics, pitfalls arising from the usage of large datasets. This paper focuses on the possible application of big data techniques on e-learning developments. The paper concludes by outlining future directions relating to the development and implementation of an institutional project on big data analytics for development of e-learning.

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