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From Machine Learning towards Deep learning; an age of Automation in Higher Education

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ABSTRACT

With the advent of the Information Technology (IT) and the Machine Learning (ML), we have stepped in to the age of automation. More specifically with the introduction of the Deep Learning which is an advanced stage of Machine Learning to allow computers to learn from experience and understand the world in terms of hierarchy of concepts using the supervised and unsupervised learning methods. This enables educators to personalized education and to improve the outcomes for the students which ultimately improves the education experience where data can accompany the students throughout their education journey. The purpose of the research is to investigate the use of the Machine Learning (ML) and Deep Learning (DL) in the UK higher education sector and to investigate the impact of these practices on the automation practices in the higher education. We are investigating how some UK Higher Education institutions are using machine learning and deep learning tools such as the IBM Watson Enlight to achieve automation and to achieve a data driven cognitive technology in terms of the curated, personalized learning contents and to align with individual students need.

Keywords: Automation; Education; Artificial Intelligence, Deep Learning, Machine Learning