Can Human Teachers Be Replaced Or Retained In The AI Age?: An Overview.

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"The whole art of teaching is only the art of awakening the natural curiosity of young mind for the purpose of satisfying it afterwards."--Anatole France.

Abstract: Nowadays we are familiar with the words like chat gpt, Dall E, Bard, the artificial intelligence is being very popular among students, research teachers, corporate workers and so on. There are views that in the future modern AI can replace many professions. The present article discusses what would be the role of a teacher or human teacher can be replaced by artificial intelligence in future. Artificial intelligence and technology has become so accessible and smart in the 21st century.

Keywords: AI literacy, Teacher’s role, Interpersonal skills, Adaptability.

Introduction: We live in an age that is wholly surrounded with technology. It has played an important role in our every facet of life, soda in education. Innovative technology such as computers, artificial intelligence robotics, chat votes or virtual reality systems are being used in the present day in every field of society and also in education. The innovative use of artificial intelligence and robotics could replace so many types of jobs that employed humans. It also has an impact on education and the question is does it replace human teachers in the future or what should be teachers’ role in the future with humanoid artificial intelligence?

History and background: if we see history, literature or mythology we can find that something has been predicted before its advent. Like the famous classics by jule Verne, Around the the world in eighty days, he made the prediction of airplane or Twenty thousand leagues under the water, we have the future prediction of submarines. So the things of technology that we have now are always predicted before. If we go back to Greek mythology, we have the story of Pygmalion. Pygmalion is the central figure of that ancient Greek myth. He was an expert sculptor who created a life-like statue of women in ivory. His craftsmanship was so perfect that he himself even fell in love with that very statue and wanted it to be a real woman to be married to him. Moved by his earnest entreaty, goddesses of Love turned that inanimate statue into a living female being. That a man made artificial statue has become a living woman. In Paracelsus, Of the Nature of Being, he describes a procedure that he claims can fabricate an "artificial man".

By placing the "sperm of a man" in horse dung, and feeding it the "Arcanum of Mans blood" after 40 days, the concoction will become a living infant. We also get a man-made artificial monster in Mary Shelley’s Frankenstein. Artificial intelligence is the mechanised thought of human beings that is created artificially by humans. Artificial intelligence can be termed as artificial brain.
In 1950 English Mathematician Alan Turing published a paper entitled “Computing Machinery and Intelligence” which opened the doors to the field that would be called AI. This was years before the community adopted the term Artificial Intelligence as coined by John McCarthy. The paper itself began by posing the simple question, “Can machines think?”*. Turing then went on to propose a method for evaluating whether machines can think, which came to be known as the Turing test. The idea of such a long term, difficult problem was a key to defining the field of AI because it cuts to the heart of the matter – rather than solving a small problem it defines an end goal that can pull research down many paths.

We also find JARVIS, an artificial intelligence made by Tony Stark in the famous movie The iron man. JARVIS is an AI that functions as Tony Stark’s assistant, running and taking care of all the internal systems of Stark’s buildings and the Iron Man suits. Ultron is also an AI that is used in the movie The Avengers age of Ultron. Artificial intelligence has become very popular today so that we have the use of artificial intelligence in every field of our life. Even if we see it in our popular movies or on our computer or to write a famous line for our beloved or to get the best answer for any questions.

We are all familiarized with the popular short story" The FunThey Had" by Isaac Asimov in 1951, which is about education. The story deals with the future of education which will become increasingly digitized and alienated from social interaction. The author's prediction is now sometimes true. Margie and Tommy had mechanical teachers. These teachers were basically large black screens, these teachers are robotic programs individually to shoot their study needs, on which the lessons were shown and questions were asked. These teachers were adjusted according to the age and potential of the student concerned. Thus we have the artificial brain in this short story before it is implemented in the present day.

Emergence of Artificial intelligence: The use of artificial intelligence has been in rapid progress in recent years. In the present scenario we all are guided by artificial intelligence. It tells us how to reach our destination (GPS), what is good for health (search engine), what to read, what to eat and what is best to find the best notes for study.

In the future, depending on artificial intelligence is inevitable. Artificial intelligence has been made by humans. It is more smart and powerful than humans. It could predict weather, how to avoid accidents, diagnose diseases and best advise how to reach our goal. In education artificial intelligence always delivers what is based on wisdom, knowledge and efficiency to each student and teacher.

Modern artificial intelligence like chat GPT is very intelligent. When a student makes a mistake while answering a question it does not simply give him another similar question. Instead it searches for the patterns in all of the students prior interaction with the program and explain them. Artificial intelligence can analyse students' learning patterns and help them by providing feedback and guidance while can lead to improved learning outcomes.

Artificial intelligence is more powerful than humans full stop online humans teachers artificial intelligence based teaching can provide are teaching quality that is more consistent. Generative artificial intelligence can solve instant questions by providing their creative technique and knowledge. It can reset the mode of learning and time giving students more handy and comprehensive support in their study or making projects.

Artificial intelligence has become a game changer for every student. Technology has always played a significant role in the progress of human civilization. Nowadays students have used artificial intelligence applications more, they get more help from that chat boat tutors. Virtual reality is also helpful for students. Students are separated by distance so they can communicate with each other easily and enjoy the same program. Anybody has experience of virtual reality will know that it is more accessible then sitting in front of computer screens.
Human teachers will be replaced or not: Though there are a lot of advantages in using artificial intelligence, it has limitations. Vivekananda says education is the manifestation of perfection already in men. Personal growth and development is essential for students. The emotional bond can develop only with humans. Teachers can understand motivate and empathize students in a way that is not possible for artificial intelligence.

AI could have an impact on higher education through personalized learning. AI-powered algorithms could analyze student data and provide customized learning experiences based on each student's needs and abilities. This could help students learning at their own place and improve their abilities of understanding. AI could also be used to automate certain administrative tasks, such as grading exams and papers.

However, it is unlikely that AI will replace teachers entirely. Teaching engages much more than simply presenting information and knowledge to students. Teachers play an important role in guiding students through complex concepts, answering questions, and providing feedback. They also provide mentorship and support that is difficult for AI.

Furthermore, AI systems still have limitations and are not yet capable of replicating human-like intelligence, creativity, and empathy that teachers possess. In fact, a teacher's ability to adapt to different learning styles and connect with students on a personal level will likely become more valuable as AI technology advances.

Overall, while AI has the potential to revolutionize higher education in many ways, it is unlikely to replace teachers completely. Instead, it is more likely that AI and teachers will work together to provide the most effective and personalized education to students.

With APJ Abdul Kalam, the purpose of education is to make good human beings with skill and expertise...enlightened human beings can be created by teachers. The emotional bond and interpersonal skills that teachers have are essential for a student. Artificial intelligence may struggle to produce such features. Teachers play a vital role in providing emotional and motivational support that AI cannot.

We live in a society that is an inseparable part of human life. We cannot live without society. To live in a society we must have Acquired social skills. Education play a vital role in providing social skills. Teachers build trust and moral support with students and help them to acquire social and emotional learning, with their interaction with students, their behaviours and empathetic attitude are essential for a learner to build a moral character. Here artificial intelligence fails to teachers.

We all know that a human can feel a human better. And teachers who have a great responsibility to build a nation feel the nerves of students better than machines. Teachers are able to adjust the methods of teaching and planning to execute properly according to different situations where artificial intelligence struggles.

Inspiration and motivation are essential to reach a goal perfectly. The personality of a teacher has a great impact on a student. Teachers serve as role models. They can inspire motivate a passion for learning, make them realize the importance of hard works that are the characteristics and parts of good learning and become a good human being.

Conclusion: Science and technology has played a great role in the 21st century. Though there can be a view that artificial intelligence could be a threat to the traditional teaching methods but it cannot be a reality to this world. It presents exciting and enhancing facilities to both teachers and students when they use it. Technology should not be taken as a substitute for human as well as teaching but can be a valuable instrument in their toolbox.
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