ATTITUDE TOWARDS ARTIFICIAL INTELLIGENCE: CHANGE IN EDUCATIONAL ERA

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Abstract: In the 21st century, humans are surrounded by Artificial Intelligence (AI) from all sides. AI is engaged in almost all fields and advancing at a tremendous rate. Artificial Intelligence has shown a remarkable impact on people's lives by making the life of people easier and more comfortable with the help of advancements in technology. Education is one area where artificial intelligence is poised to make significant improvements. Students should develop a positive attitude toward professional skills learning, as attitudes toward AI can be an important factor in the success or failure of AI education. The use of AI in education has offered parents, instructors, students, and of course, educational institutions an entirely new way to see education. Future education will be shaped by a variety of AI tools that will be integrated into the system. AI is transforming the education industry in many ways.

Index Terms - Artificial Intelligence, Attitude, Education.

INTRODUCTION

Throughout the world, technology is something that is keep on increasing day by day without any pause. Humans are the one who are behind the development of technology in order to advance and more enhance their way of living. When anything come up in this world, humans started showing attitude towards it; sometimes the attitude is positive and sometimes negative and according to that, the advancement of that particular thing depends.

Technologies are becoming increasingly complicated and increasingly interconnected. Cars, airplanes, medical devices, financial transactions, and electricity systems all rely on more computer software than they ever have before, making them both harder to understand and, in some cases, harder to control (Wolff, J. 2021). Same is in the field of education, more and more software is invented to modernise the standard of education no matter some of them are harder to use however on the other hand if one learns to use it; it will make the system of education easier and interesting for the educators as well as the students.

There is continuous work and progress in the area of technology as it offers significant benefits and these benefits have a huge impact on our day-to-day lives and the operations of countless industries, such as healthcare, automobile, communication, manufacturing, and business, among others.

Artificial Intelligence (AI)

Artificial intelligence (AI) is all around us in the twenty-first century. Nearly every sector is utilising AI, which is developing quickly. The term AI, coined in the 1950s, refers to the simulation of human intelligence by machines. It covers an ever-changing set of capabilities as new technologies are developed. Technologies that come under the umbrella of AI include machine learning and deep learning (Burns, E.2023). AI is important for its potential to change how we live, work and play. The rapidly expanding population of generative AI tools will be important in fields ranging from education and marketing to product design. AI has become centre to many of today's largest and most successful companies, including Alphabet, Apple, Microsoft and Meta, where AI technologies are used to improve operations and outpace competitors (Burns, E.2023).

Artificial Intelligence (AI) in the field of education

Every person should place a high value on education because it is essential to living a prosperous life. Around the world, a lot of modifications are always being made to the curriculum and teaching methods in order to standardize the educational system for the students. Artificial intelligence is a rapidly developing technology that is transforming practically every aspect of life. Education is one area where artificial intelligence is poised to make significant improvements. The use of AI in education has offered parents, instructors, students, and, of course, educational institutions an entirely new way to see education. AI in education refers to the use of computer intelligence to assist instructors and students and improve the effectiveness of the educational system. It does not refer to the use of robots to educate in place of actual teachers. Future education will be shaped by a variety of AI tools that will be integrated into the system.

AI has the potential to revolutionize the education sector by enhancing learning experiences, supporting teachers and offering more personalized learning opportunities for students. Teaching students about AI is essential for developing digital literacy, critical thinking skills, and preparing students for future academic and career success. A basic understanding of AI systems enables students to engage and ideate with AI technologies safely, responsibly and ethically. Learning about AI also encourages students to analyze and evaluate question structure, complex information, question assumptions and consider the ethical implications of AI technology usage (Language magazine. 2023).

Although AI has been around for a while in the world of educational technology. However, the COVID-19 epidemic prompted a change in the business due to virtual learning. By providing access to appropriate courses, improving communication with tutors, and allowing students more time to concentrate on other aspects of their lives, AI helps students' educational processes run more smoothly. AI enhances the personalization of student learning programs and courses, promotes tutoring by helping students improve their weak spots and sharpen their skills, ensures quick responses between teachers and students, and enhances universal 24/7 learning access. Educators can use AI for task automation, including administrative work, evaluating learning patterns, grading papers, responding to general queries, and more (Industry Trends. 2022).

Artificial Intelligence (AI) has the potential to address some of the biggest challenges in education today, innovate teaching and learning practices, and accelerate progress towards SDG 4. UNESCO is committed to supporting Member States to harness the potential of AI technologies for achieving the Education 2030 Agenda, while ensuring that its application in educational contexts is guided by the core principles of inclusion and equity. UNESCO's mandate calls inherently for a human-centred approach to AI. The promise of "AI for all" must be that everyone can take advantage of the technological revolution under way and access its fruits, notably in terms of innovation and knowledge (UNESCO).

Attitude towards Artificial Intelligence (AI)

Artificial intelligence (AI) is one of the fastest growing and most disruptive technologies in the world today because it has the potential to drastically impact society, it's important to measure how people are feeling towards it. With the help of infographic visualizes survey data from market research firm, Ipsos, to see how attitudes towards AI varies from country to country. By including each country's GDP per capita, it was concluded that wealthier populations are more skeptical about products and services that use the technology (Lu, M. 2023). Through the survey it was seen that China is at the top among the other countries, Saudi Arabia at second and India at third, which means the people of India needs to be more aware and focused towards Artificial Intelligence (AI). On the other hand, Artificial Intelligence has shown remarkable impact on people lives by making the life of people easier and comfortable with the help of advancement in technologies.

Attitude towards Artificial Intelligence (AI) in reference to educational field

Loeckx suggested that AI could be an effective learning tool that lessens the burdens of both teachers and students and offers effective learning experiences for students (J, Loeckx. 2016). Some researchers wondered whether advancements in AI would challenge or even replace teachers since many other jobs are being replaced by automation (M. Lacity and L. P. Willcocks, 2017). There is an emerging recognition that teachers' professional roles need to be adjusted as AI advances and this will trigger new organizational forms (T. Fenwick, 2018). Emerging challenges also included students' attitudes towards these changes (A. Flogie and B. Aberšek, 2015). To some extent, students as digital citizens are able to leverage AI to improve learning outcomes. Nonetheless, they may fail to use suitable AI techniques appropriately for a specific learning context, which would result in negative attitudes towards learning (K. Ijaz, et al. 2017).

With the advancement in technology, AI is becoming a crucial part of education by making advanced software which increases the interest in students towards their studies. According to the latest available data, the average person spends 6 hours and 58 minutes per day on screens connected to the internet (Howarth. J, 2023) as the more we are involved to something the more we become aware of it and this is leading the attitude of people towards AI in an advanced way. People are so much into the use of technology due to one or the other reasons and spend a lot of time on computer and mobile devices and this differs in with gender. The finding of the study – "Assessing Students' Attitude Towards Artificial Intelligence with Respect to Gender and Use of Computer and Mobile Devices", revealed that there is significant difference in the attitude of male and female senior secondary students towards Artificial Intelligence and even it shows that 42% of the students are spending more than 3 hours on computer and mobile devices as well as the study revealed that there is significant difference in the attitude towards Artificial Intelligence of students spending different hours on computer and mobile devices (Beig, S., & Qasim, S. H. 2023). The interest of some people into AI makes it more familiar and helps it to spread among the common people which leads to increase in the advancement of AI, specially there is a drastic change in the field of education due to AI. AI makes the teaching techniques more interesting and easier for the students as well as for educators.

AI brings a change in educational field

At the time of pandemic, the actual use of technologies comes into existence. Earlier people were not so much into the use of technologies. If we talk about India, now it is on its way to fulfilling the targets of the UN's SDG (Sustainable Development Goal) 4, which is "Quality Education". It is taking several initiatives that are progressing and making education accessible to everyone in the country. The government's push to use technology has also played a crucial role in catering to the educational needs of students. The Indian Ministry of Education and NITI AYOG has already emphasized the significance of AI in the field of education and has pushed for the creation and introduction of new AI courses in higher education to equip students with the skills they will need to compete in both the current and future job markets (Vindal, V. 2023). The use of AI helps in increasing ways for students' learning and helps educators in providing a number of ways to make teaching and learning interesting.

The way that students, teachers, parents, and of course educational institutions themselves view education has altered as a result of Artificial Intelligence. According to a report by Global Market Insights, AI in the education market is predicted to exceed $80 billion by 2030. The Markets And Markets report suggests that global use of AI in the education market could grow up to $3,683.5 million in 2023 (Mistry, P. 2023). Now with AI teachers can teach more easily and smoothly by making students learn more quickly. The introduction of virtual reality (VR) has also made education more interesting and interactive. Furthermore, the implementation of chatbots has made education accessible to students around the clock. Earlier, students had to wait to go to school and get their doubts resolved. At the click of a button, students can now look up their doubts online and find a plethora of information on one topic. Artificial Intelligence has made it easier to manage and organise learning for educators as well as students. There are several learning management systems that make life easier by providing aid in tracking learning, assigning tasks and online activities among other things by creating a centralised management system (Kagzi, V. 2022).

On the basis of the reviews and recommendations, AI is transforming the education industry in the following ways:

1. AI developed a number of software for the students as well as educators keeping in mind the needs and requirements of each and every individual as in educational field every individual is unique and needs special attention with the help of AI this work is also become easier.
2. Now a days AI is so advanced that with the help of it people can make presentations, and reports in just a click which saves a lot of time even auto-corrections plays a very helpful role.
3. With AI the classrooms are now changed to an interesting place for the children where they learn with more enthusiasm as AI is providing a number of applications for the educators to create innovative content for convenient learning.
4. AI-powered converter tools like Presentation Translator provide real-time subtitles for virtual lectures, is one of the applications of AI that helps to enhance inclusive education that is a very important part of education system.
5. AI is acting like a very powerful tool in strengthening the skills of teachers as well as students with a number of apps where AI educator is available 24/7 for them to solve their problem, provide truthful feedbacks to improve as well as help them to enhance their particular skills.

Artificial intelligence has the potential to simplify things for both teachers and students. Even the non-teaching staff associated with the education industry can reap the benefits of AI penetration. AI is already creating ripples in the education sector by offering pioneering features and facilities. Experts suggest that AI is definitely here to stay for a long time, and a few years down the line, the global education industry will look altogether differently- thanks to artificial intelligence (Education Moonpreneur. 2023)

CONCLUSION

Artificial Intelligence is not just a technology, it is now becoming the part of human era as it is playing an influential role in the present world and even it is tending to play more crucial role in future also. After pandemic, humans are more into the use of technologies even in the field of education there is a huge change due the AI technologies as it makes teaching and learning methods easier than before with a number of applications for students, educators as well as all those who are connected to educational field. AI creates an opportunity to educate students of all learning styles and support many important needs in education. AI will never replace educators from the field of education as it is only playing the role of a tool for the teacher to enhance the educational system.

REFERENCES

[1] Beig, S., & Qasim, S. H. Assessing Students' Attitude Towards Artificial Intelligence with Respect to Gender and Use of Computer and Mobile Devices. IJFMR-International Journal For Multidisciplinary Research, 5(3).
[2] Chen, L., Chen, P., & Lin, Z. (2020). Artificial intelligence in education: A review. Ieee Access, 8, 75264-75278.
[3] Fenwick, T. (2018). Pondering purposes, propelling forwards. Studies in Continuing Education, 40(3), 367-380.
[4] Flogie, A., & Aberšek, B. (2015). Transdisciplinary approach of science, technology, engineering and mathematics education. Journal of Baltic science education, 14(6), 779.
[5] Ijaz, K., Bogdanovych, A., & Trescak, T. (2017). Virtual worlds vs books and videos in history education. Interactive Learning Environments, 25(7), 904-929.
[6] Lacity, M., & Willcocks, L. P. (2017). Robotic process automation and risk mitigation: The definitive guide. SB Publishing.
[7] Loeckx, J. (2016). Blurring boundaries in education: Context and impact of MOOCs. International Review of Research in Open and Distributed Learning, 17(3), 92-121.
[8] Ng, D. T. K., Lee, M., Tan, R. J. Y., Hu, X., Downie, J. S., & Chu, S. K. W. (2022). A review of AI teaching and learning from 2000 to 2020. Education and Information Technologies, 1-57.
[9] Suh, W., & Ahn, S. (2022). Development and validation of a scale measuring student attitudes toward artificial intelligence. Sage Open, 12(2), 21582440221100463.
[10] Zhai, X., Chu, X., Chai, C. S., Jong, M. S. Y., Istenic, A., Spector, M., ... & Li, Y. (2021). A Review of Artificial Intelligence (AI) in Education from 2010 to 2020. Complexity, 2021, 1-18.