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IMPACT OF ARTIFICIAL INTELLIGENCE IN EDUCATION

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ABSTRACT:

The main purpose of studying Artificial intelligence in education is the scope in today's world. Today most of the institutes uses artificial education in education. Artificial intelligence has adopted computer and computer technologies transitioning online education system. ICT and internet platform motivates teachers to make students assessment in very effectively, efficiently and scientific manner. Due to this teachers are able to deliver high quality education. Now a day's catboats has made students to get all droughts clear immediately. On the other hand this e-learning system may feel students as lonely and alone which can also affect their psychology.

Keywords: *Artificial Intelligence, AI in education, Artificial Intelligence in future education.*

INTRODUCTION:

According to Horizon report, experts said that the use of AI in the education will grow by 43% by 2018 and the report estimated to reach over \$ 25.7 billion by 2030. Artificial Intelligence in Education Society (AIED) is an interdisciplinary concept in science, education and psychology. AIED society was launched on 1st January 1997. [1] Earlier research programmed into instructions from the mid-1900s, developments of related computing technologies and computers saw the use of computers in different parts of the education sector. More in different departments in educational institutions, such as the development of computer aided instruction and learning (CAI/L) in classroom interactions [2]

AI solutions can better analyze studying data, in individualized teaching and autonomous learning, in turn helping instructors create personalized learning plans for each student. AI in education, Human bias is also a big problem for AI solution which can mark or grade the assessment and exams by preset instructions and benchmarks to break bias [3].

AI systems also read and detect images of handwritten papers which can be achieved by computer vision-based. Not only biasness but AI also helps to prevent the notes from plagiarism. AI systems has detected learning shortcomings of student and address them early in their education by analyzing student data, Most of a student are treated similarly by the conventional education system [4].

Literature Review:

Before going to the introduction of computers and other related technologies, learning mechanically, or through the natural human effort. In the 1970s, With the introduction of microcomputers, and by extension, personal computers which provided more computing power and marked an important transition to electronic computers for the mass market [5].

Campbell Kelly shared the opinion that, with developments of the electronic computers, and the availability of the AI for different structure across different sectors of the economy, was situation by the developments of personal computers in the 1970s [6]

Information communication technologies and Computer have over the years continued to evolve, leading to the development of artificial intelligence. According to Coppin, Artificial intelligence, is the ability of machines to adapt to new situations, device plans, solve problems, deal with emerging situations, answer questions, and perform various other functions that require some stages of intelligence typically present in human beings [7]

AI helps for continuous developments and innovations, with the transitioning of AI from computers only, to include embedded systems, as well as online and web-based platforms, indicate the development and use of AI in web-based platforms online platforms, and robotics, and evidenced by the development and use of humanoid robots i.e. human like robots (robots and Chabot's), which perform, independently or working with educators' duties, human instructors, including distribution of learning materials to learners at various levels of education. In addition, from the analysis, and the descriptions of the platforms provided in the different evaluated articles, it is apparent AI application in education is in different forms which has learners in a richer and more rewarding learning experience [8] [9]

Chassignol et al. defined AI As a theory, as a theoretical framework guiding the development and use of computer systems with the more particularly, capabilities of human beings, intelligence and the ability to perform tasks that require human intelligence. It includes visual perception, speech recognition, decision-making, and translation between languages [10]

What work AI does in education:

Administrations-

- Performs the administrative tasks in a speedy way. The work such as grading exams and providing feedback.

- Just identify the level of students grasping power.
- Get feedback on time.
- **Instructions-**
- Anticipate how well a student increase expectations and what difficulties they face while learning.
- Allow two way communication and instructions in classroom.
- AI will also provide personalized learning plan.

Learning-

- Uncover learning of student and address them early in education.
- Forecast the career path for students.
- Detect learning state and apply intelligent intervention to students.

Module of AI in education:

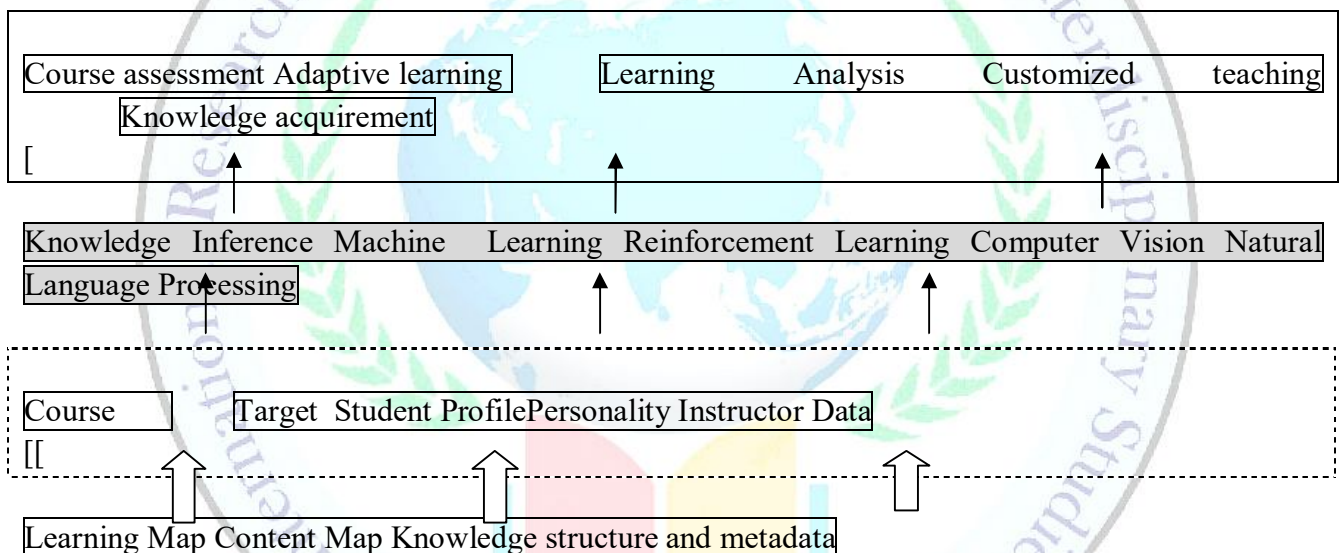


Fig. 1. Module of AI in education

AI in today's world-

Artificial Intelligence works like a human brain and brings super power having tremendous processing capabilities, adaptive behavior. It promote cognitive ability and intelligent to enhance the computing power.

AI improves the supercomputer's interaction with human beings. Indeed, different pictures are made to get the abilities of AI, such as in smart buildings, temperatures, and or playing music depending on the mood of the occupants of the space but in the education sector, there has been the increased application of artificial intelligence.

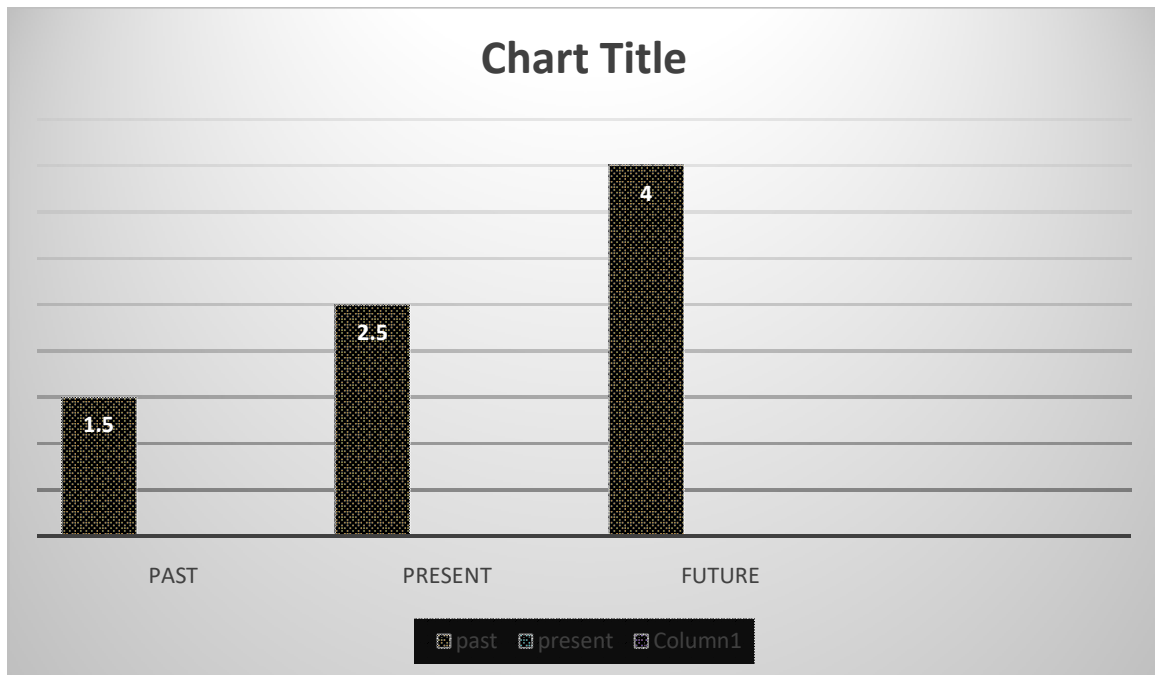


Fig.1 Artificial intelligence in past present and future

ADVANTAGES OF AI IN EDUCATION SYSTEM:

AI can help students achieve their goals by understanding education. AI provides the right path for improving communication with teachers and spending more time in the education system. AI help to make life significant.

Personalization-

Personalization is the best and biggest trend nowadays in education. AI helps students now to have a personalized approach to learning based on their own tastes and preferences. AI can understand each student's level of grasping knowledge, speed of learning and desired goals. AI analyze students' previous learning histories, it can also identify weaknesses and offer the best courses for improvement.

Tutoring-

It different for students to require extra help outside of the classroom. Many a teacher don't have the free time after hours for students. But now a day's AI tutors and chatbots are a perfect solution now a days. As we know, no chatbot can truly replace an educator, AI tools can help students sharpen their skills and improve weak spots outside of the classroom. They provide a learning experience without the teacher to answer questions any time. The main thing is AI can reply students at no time i.e. 2.7 seconds.

Quick responses-

If we get answers after three days which can frustrate us. Teachers and faculty are always and often bombarded with questions. AI can help also help students to find answers to questions in

seconds only through support automation and conversational intelligence. This is the great advantage that student need not have worried about answer and response to their questions.

Universal 24/7 access to learning: AI makes learning accessible, anytime and anywhere for all students. Students can access it learning 24/7 without disturbing or taking help of their tutor. Additionally, Students don't have to make any expense like living or travelling. [11] [12]

Disadvantages of Artificial Intelligence:

Cost-

AI is at high cost because the cost of maintenance and repair. AI requires more digital devices therefore, the amount of power needed increases. Now a day's schools have to increase their budget. So, schools have to look forward to manage this expense.

No Personal Connection-

When we completely turn to AI there may be no teachers in many aspects. The main thing about school is the relationship between teachers and students and how a teacher can mould their students. Now we can end up by breaking all the relations instead of social relationships.

Unemployment

We all know IT and AI is growing day by day and AI might soon replace many teachers and non-teaching staff. In online learning, there is no limit to asking questions and the number of students available. And AI might be the last straw that makes unemployment in day to day life.

Information in Wrong Hands-

As this is online the students' data may get hacked. If it falls to the wrong hands, schools will be at a high risk.

The prospect of AI is really exciting. It is high time that our educational system needs a structure and AI can put us in the right direction. At the same time, it is a big worry about how much time we spend online. [13]

Conclusion:

AI initially took the form of computers and computer-related systems in education, and later, the form of web-based and online education platform. Universal 24/7 access to learning: AI makes learning accessible, anytime and anywhere for all students. Students can access it learning 24/7 without disturbing or taking help of their tutor. Quality, Similarly, AI is making students with improved learning experiences because AI has enabled the personalization and customization of learning materials to the needs and capabilities of students.

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