

Universal College Of Engineering

*APPROVED BY AICTE, DTE, UNIVERSITY
OF MUMBAI, MAHARASTRA STATE.*

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THE MISSION

The department is carrying a mission to create and disseminate the knowledge and techniques in the intellectual areas of Engineering and other core areas of Applied Science and Humanities for the betterment of Ecosystem.

To inculcate the importance of Applied Science and develop a natural flair for Engineering and Technology which in turn shall mold students into a competent professional.

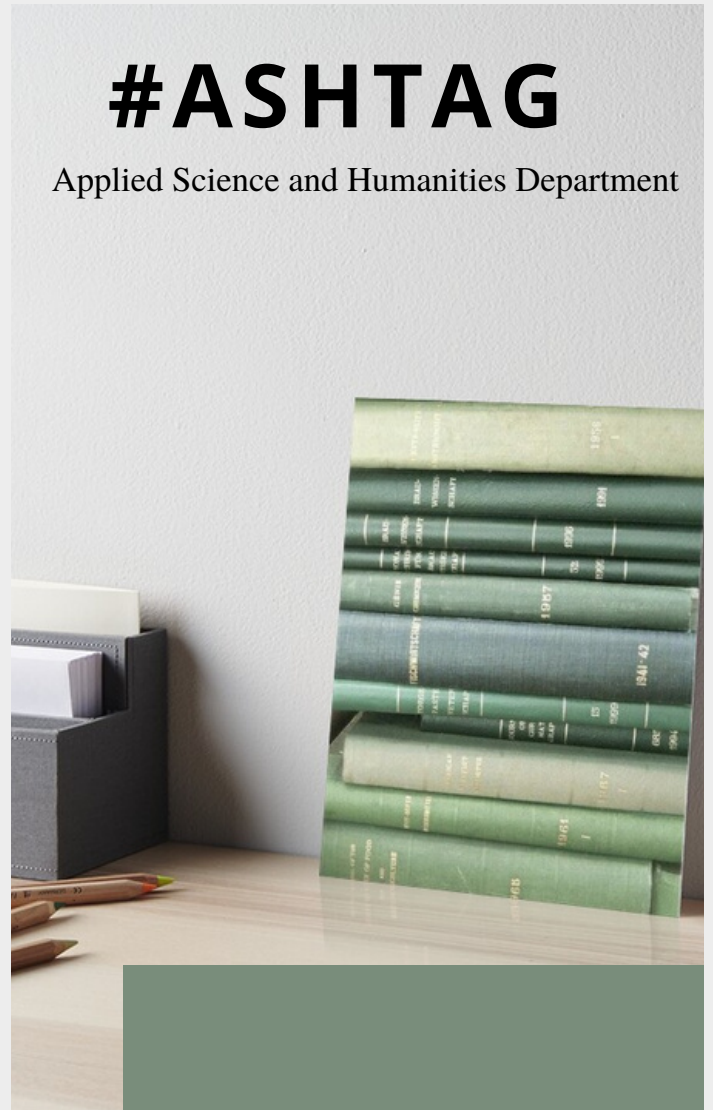
THE VISSION

The Department of Applied Science and Humanities committed to dynamically integrate the components Science, Humanities Engineering to groom students to transform them as globally acknowledged professionals.

To keep pace with fast developing scenario of technology and socio economic environment while planning to develop a world class technical institution.

#ASHTAG

Applied Science and Humanities Department



Keep your eyes on
star
but your feet on
ground

How AI and Metaverse are Transforming the Educational Sector?

Technologies that are constantly evolving have been driving transformation in all aspects of life. AI and Metaverse, among other technologies in the education sector, are significant in this digitalization era. Both technologies AI and Metaverse in the education sector are making major transformations by helping students' individualized and interactive learning.

In the education sector, Metaverse allows students to attend virtual classes remotely while experiencing elements of the real classroom. AI, on the other hand, has enabled students to customize their approach to educational programs based on their individual preferences. Education institutions and technology companies are collaborating to remove physical barriers and make classrooms more immersive, engaging, and communicative. With AI, VR, and AR technologies, the metaverse could become the next big offering in terms of learning opportunities for people all over the world. Let us now look at how AI and Metaverse are transforming the education sector with an expected CAGR of 40.3% between 2019 and 2025.



"The development of full artificial intelligence could spell the end of the human race"

1 - Individualized Learning

With the advent of artificial intelligence, students can now target a personalized learning experience for themselves. It collects data from students about their understanding and level of perception and then creates a learning path for them. Students can also use artificial intelligence to track their real-time progress and take specialized classes or practice tests based on it.

2 - Easy Access to Education

AI enables educators to share digitized versions of textbooks and resources with students. As a result, anyone in the world can access their favorite lessons. Education is no longer confined by four walls. Furthermore, one can rely on AI to have their lessons translated into different languages to facilitate education.

3 - Making Learning Fun with Gamification

The use of a metaverse in education can improve focused learning. Badges and other forms of recognition keep learners motivated and encourage them to stay focused on completing the assigned tasks. Students, for example, can explore different geographical areas in the metaverse to learn about the features and environment of the locations. The learners can then create avatars based on the culture of the location.

4 - Flexible Learning Concepts with an Interactive Curriculum

Students can focus on improving their learning experiences by using Metaverse's virtual 3D classroom configuration. Student engagement has increased as a result, particularly with AR and VR, facilitating broader comprehension and improving memory recall for difficult or abstract concepts. The interactive curriculum, self-paced learning, and micro-learning have also been enabled by digital classrooms.

5 - Language Learning through Chatbots

AI makes language learning more accessible to everyone in the metaverse. People in the metaverse, for example, will use AI-powered language-learning chatbots to learn foreign languages as language chatbots become more intelligent. Direct interaction with bots in the form of questions and customized answers facilitates learning through communication and can be an extremely effective method of learning a foreign language.

6 - Multilingual Learning Opportunities

Artificial intelligence, virtual reality, and augmented reality technologies can improve multilingual accessibility for learners anywhere in the world. Technologies such as speech-to-text, text-to-speech, and machine translation enhance the learning process and create more immersive learning environments. AI can process multiple languages concurrently and provide real-time translations, allowing students to interact with materials in the language of their choice.

7 - Hands-On-Practise

The metaverse is redefining traditional methods of education by involving students in hands-on activities that would otherwise be risky and difficult in a real-world setting. It assists students in better understanding theories and refining their skills to prepare them for real-world endeavors. Within a metaverse, students can perform complex surgeries or dangerous explosive experiments without endangering anyone's life.

8 - Task Automation for Educators

One of the most significant advantages of artificial intelligence is task automation. Educators must manage a variety of administrative tasks, such as organizing teaching materials and resources, filling out student information, preparing progress reports for students, keeping track of their attendance, and so on. Managing all of these non-teaching activities is time-consuming.



COMPLIED BY: Gati Shinde and Sanket Shirke

SOURCE: <https://www.analyticsinsight.net/how-ai-and-metaverse-are-transforming-the-educational-sector/>

9 - 100% Secure Virtual Examinations

AI enables educational institutions to administer virtual exams. Online testing allows students to take exams from anywhere in the world. Also, because teachers are guided by AI, preparing question papers becomes far too simple. Because of artificial intelligence, such online examinations are more secure than offline ones, as AI provides teachers with various configurations and settings for preparing question papers.

1. Finding Information Quickly and Easily

With internet-enabled techniques, knowledge can be easily made available to a larger audience. Once created, courses can be used by multiple learners, saving time and money. Personalized search results and improved socially collaborative tools will understandably provide individualized learning paths.

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Will artificial intelligence take over the world?

There is no question that artificial intelligence (AI) is advancing rapidly and is poised to play a significant role in future society. While there is still much debate surrounding the potential dangers and benefits of AI, there is no doubt that it will play an increasingly important role in our lives and economy. Some see AI as a potential savior, providing opportunities for widespread economic growth and automation of many tasks. Others are concerned about the potential dangers of AI, including job loss and increased automation of human labor. Regardless of the fears or expectations, AI is here to stay. The question is, will Artificial Intelligence take over the world?

Why Artificial Intelligence is important?

Artificial intelligence has the potential to improve our quality of life in many ways. For example, it could help us to better understand and respond to complex situations. It could also help us to make better decisions. And it could help us to automate tasks or processes.

Artificial intelligence has the potential to profoundly change the way we live and work. Here are four reasons why artificial intelligence is so important:

1. AI can help us achieve our goals more efficiently and reduce human error.

Artificial intelligence can help us automate tasks and processes that we would otherwise have to do manually. This can save us time and money, allowing us to focus on more important tasks.

While AI can do great things, it can also cause us to lose jobs. For example, AI can help businesses automate tasks that workers can do more cheaply and quickly. In the long run, this may mean that more jobs are lost, but it may also mean that more jobs are created in the fields like business, engineering...

2. AI can help us learn and evolve more effectively.

Artificial intelligence can help us learn and remember information more effectively. This can help us quickly adapt to changes in our environment and make better decisions.

3. AI can do dangerous and repetitive tasks

AI can do dangerous and repetitive tasks, but it can also help us do things we never thought possible. For example, AI can help doctors diagnose diseases more quickly and accurately than human doctors. AI can also help us manage massive data sets more efficiently, which can help us find new ways to fight crime or improve our economy.

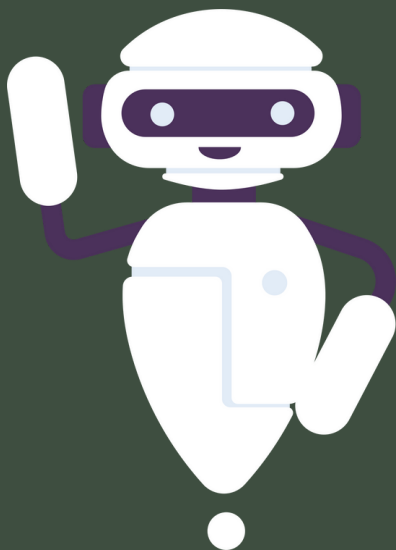
4. AI is available 24/7 and it works faster than humans

AI has the ability to learn, process and react faster than humans. This has led to the development of AI-powered applications that can help us in our day-to-day lives.

Who invented Artificial intelligence? In the 1950s the American mathematician John McCarthy, at the Massachusetts Institute of Technology, coined the term "Artificial Intelligence" to refer to the study and construction of intelligent machines. At that time the field of "Machine Intelligence" was in its infancy and was largely the domain of a few visionaries and eccentric academics and the focus of AI was on solving puzzles in a logical environment. However, in the past few decades "AI" has become a discipline of its own.

Where AI is used?

AI has been used in a range of fields, from retail to finance. Artificial intelligence has recently been used to enhance different products and services. It is now used in different industries to make products and services better and more efficient. Industries that massively use artificial intelligence include banking, insurance and healthcare as well as art and entertainment (video games, movies...).



Are Artificial Intelligence and Machine Learning the same thing?

The two terms "Artificial Intelligence" (AI) and "Machine Learning" (ML) are often used interchangeably, but they are not the same thing. "AI" is an umbrella term that includes a wide range of technologies that can help computers do things that would otherwise be difficult or impossible for them to do, like recognize objects and understand natural language. "Machine learning" is a subset of AI that is used to improve the performance of AI systems by allowing them to learn from data. Artificial Intelligence is the attempt to create computer systems that can "think" like humans. There are two fundamental approaches to AI: "Machine learning" and "Programming". Machine learning is, at its core, the use of algorithms to enable computers to "learn" without being explicitly programmed. It is the process of allowing a computer to "try things out".

Will Artificial Intelligence surpass human intelligence?

There is no clear consensus on when or if artificial intelligence will surpass human intelligence. Some experts believe that this will eventually happen, while others are more doubtful.

AI can do a lot of things that humans cannot do, such as making decisions quickly and accurately. However, AI cannot do everything that humans can do, such as creative thinking or empathy.

Because of this, for me, the right question is not "will AI surpass human intelligence?" but "which level of symbiosis between AI and humans can be reached and is it acceptable in order not to lose humanity?".

Is AI actually intelligent?

Intelligence is often defined as the ability to adapt to changing conditions. However, it is not so easy to define or pin down. It is an elusive quality that is hard to test and even harder to build into a machine.

Even defining human intelligence is very complex and difficult. It is often considered a natural phenomenon that can never be fully understood or replicated by machines. However, there are some definitions of human intelligence that are more accurate than others.

One definition of human intelligence focuses on the ability to understand and solve problems. This type of intelligence is usually measured using cognitive tests, such as IQ tests or SATs (Scholastic Aptitude Test). These tests measure a person's ability to think abstractly and solve complex problems.

Another definition of human intelligence focuses on the ability to learn new information quickly and apply it effectively in various situations.

COMPLIED BY: Gati Shinde and Sanket Shirke

SOURCE:
<https://www.linkedin.com/pulse/artificial-intelligence-take-over-world-ivica-berkov/>

Conclusion

When I asked AI "Will Artificial Intelligence take over the world?" the first answer was simply "No."

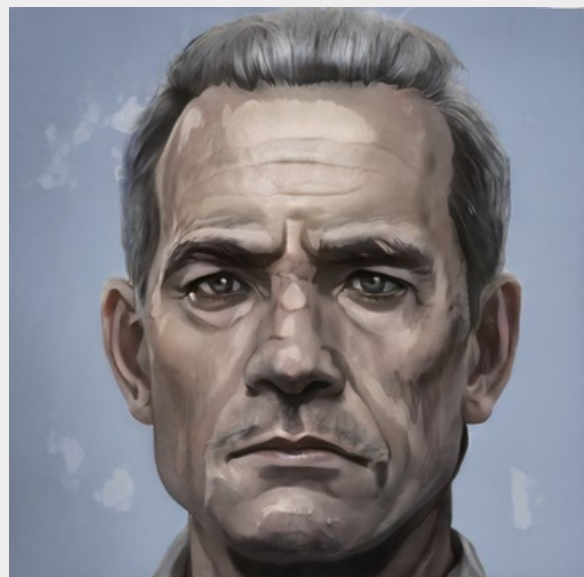
On the second try, it says "There is no evidence to support this claim."

At this moment I completely agree. Even if AI surpass the limits which humans cannot fully comprehend, still it will be a super-tool to enhance our human capabilities and improve our lifestyle.

AI will offer humans opportunities to do things that are otherwise impossible or too time-consuming.

For example, some people can now travel the world cheaply and easily thanks to online booking engines like Expedia and Orbitz. But if AI were able to create a realistic virtual tour of every destination in the world, there would be no need for human intermediaries – anyone could go anywhere they wanted at any time, without spending a fortune on airfare or hotels.

AI and humans are not enemies but very close friends. For now on this planet only, and I believe very soon on other planets as well.



Before Time Flies

*You never know, tomorrow what will be in your life's story book.
live to the fullest and work on to give your present the best
Outlook!*

*Complete your responsibilities towards your people:
Cause you are uninformed about when your next meet with
them will be able.*

*The life's riddle is strangely composed!
Sometimes it happens that the story remains incomplete but
the book gets closed!*

*CHerish love, appreciate everything grow,
strive, all is for short your part you realise
For that this unusual and queer book we are gifted once which is
to be fulfilled before time flies.*

-Jidnyasee Jagtap

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