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Artificial Intelligence: An Overview

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Abstract

Artificial intelligence is the capacity given by humans to machines to memorize and learn from experience, to think and create, to speak, to judge and make decisions. Also, as per Sunder Pichai-CEO of Google, it is well said that “Artificial intelligence will be part of our future. It’s inevitable”. It refers to the development of computer system, making them able to perform tasks which require human intelligence such as visual perception, speech recognition, decision-making and translation between languages. India has grown in a remarkable way, particularly in the post-independence period; to become one of the largest systems of its kind in the world. In the last few years, the growth of artificial intelligence India has been phenomenal. The AI in today’s environment plays a significant role in empowering youth and should prepare the students to face the business challenged boldly through AI. The growth of AI has been impressive. An attempt has been made in this paper to apply AI for sustainable development to empowering student.

Keywords : Artificial, Development, Intelligence, Sustainable.

Introduction:

Dave Waters said “Predicting the future isn’t magic, its artificial intelligence” Artificial intelligence refers to the development of computer system, making them able to perform tasks which require human intelligence such as visual perception, speech recognition, decision-making and translation between languages. In simple words, artificial intelligence is the study of the way in which computers can be made to copy the way human ‘think’.

The focus of the study is on the following objectives:

- i) To review the potential benefits of artificial intelligence in education.
- ii) To study the impact of artificial intelligence on various fields.
- iii) To study the drawbacks of artificial intelligence.
- iv) To suggest suitable measures to overcome the problems.

Methodology Adopted:

Significant part of the study depends on secondary sources. Materials for the present study were collected from the published records available in the library of B.G.S.B University, Rajouri (J&K), magazines, journals, annual reports and periodicals, have also been gone through to derive information pertaining to the present study.

Limitations of the Study:

Nothing is perfect so is this study. The present study suffers from certain limitations. The study is based on the information from secondary source which reduce the degree of reliability.

Potential Benefits of Artificial Intelligence in Education

The main potential benefits of artificial intelligence in education are as follows:

1. Increased efficiency and productivity of the students.
2. Improved accuracy and decision –making.
3. The creation of new job opportunities.
4. Artificial intelligence is widely used in data heavy industries, including banking and securities, pharmacy and insurance, etc.
5. It has provided personalized experiences to customer.
6. AI has been significantly able to digitalize the society.
7. In the film industry, it has started replacing humans as it can be used to create new and unique characters and storylines.
8. It has led to the creation of ‘new’ technologies, ‘improved’ business processes, and greater efficiency in many industries.
9. AI has a significant impact on various forms of media, from text to videos and 3D.

Impact of Artificial Intelligence on Various Fields

1. Artificial intelligence has revolutionized many industries, including- health care, finance, education and more.
2. In all the fields, it has improved efficiency, reduced costs and increased accuracy.
3. It has reduced the time to analyze bid data sets in many data-heavy industries.
4. AI powered technologies such a natural language processing, image and audio recognition and computer vision have revolutionized the way we interact with and consume ‘media’.
5. The impact of artificial intelligence in education is the ability to provide personalized and individualized teaching. This approach has the potential to dramatically improve learning outcomes and engagement.
6. Artificial intelligence has the potential to bring about numerous positive changes in society.

Drawbacks of Artificial Intelligence

“Artificial intelligence is about replacing human decision making with more sophisticated technologies.” Falguni Desai

1. One of the most profound impacts of artificial intelligence is the automation is replacing human workers at an unprecedented rate.
2. AI also raises concerns about the displacement of jobs.
3. There are major issues such as privacy, security and job displacement that come with the increasing use of artificial intelligence.
4. Costly implementation.
5. Lack of emotion.
6. Lack of creativity.
7. It can dehumanize (deprive of positive human qualities) the learning experience.

Also, it was said by Matt Bellamy that, “In the long term, artificial intelligence and automation are going to be taking over so much of what gives humans a feeling of purpose”.

Conclusion and Suggestions

In conclusion, the future of artificial intelligence is bright and full of possibilities. As society continues to embrace this technology, it is crucial that we remain mindful of its impact and work to address the challenges that come with its evolution. By doing so, we can ensure that artificial intelligence continues to play a positive role in our world, improving our lives and creating a better future for generations to come.

“Machine intelligence is the last invention that humanity will ever need to make.” Nick Bostrom

Integrating artificial intelligence into education can streamline administrative tasks, giving teachers more time for meaningful student engagement. By automating routine duties and emphasizing human-centric teaching, we can create an environment where educators can thrive, creating a richer learning experience. AI has interactive tools features like simulations, quizzes, and virtual tutors enhance engagement and retention. Last but not the least, artificial intelligence provides continuous and instant feedback on assignments and exercises, helping students identify and address areas for improvement.

Abbreviations and Acronyms

AI : Artificial Intelligence

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