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Impact of Artificial Intelligence on Human Life

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Abstract:

Artificial intelligence holds the utmost importance in multidisciplinary field in automatic tasks that needs human expertise although because of its lock in general acceptability, artificial intelligence is revolutionizing in every aspect of life. This article as to spread awareness about the use of artificial intelligence and educate people about At.

Introduction:

Artificial intelligence is defined or the ability to solve complex problems using its our intelligence it refers to the field of computer science that focuses on creating intelligent machines the machines are made to perform tasks that physically requires human expertise such or learning solving problems and decision making it's a fascinating thing to sea hour AI can mimic human intelligence.

Working of AI –

AI works by using algariths and data to simulate human intelligence It is Started with collecting & analyzing and collecting large amounts of data AI systems can also use natural language processing to understand and respond to human language it's like teaching a computer to think and learn like a human. But with its own unique capabilities because of the

cutting – edge technologies, computer system can grasp the meaning of human language, learn from experience and make prediction.

Following are few sub-fields of AI –

A. Machine Learning – Experience learning

It is an application though which Computers automatic learn and grow from their experience without having to be explicitly

Programmed machine learning is used in life sciences, healthcare in improving illness detection Robotics medical picture interpretation in addition to predicting what Netflix movies you would like.

B. Deep learning/ Self – educating machines

Artificial intelligence can be used in self – educating machines by leveraging machines learning algorithms, These algorithms all our machines to learn from data and improve their performance over time without explicit programming for example in the context of self – educating machines, AI can be used to develop intelligent tutoring systems that adapt to a learner's needs and provide personalized he commendations by analyzing user interactions and feedback the machine can continuously refine its knowledge and adapt its teaching strategies.

C. Cognitive Computing –

Cognitive computing seeks to recreate the human thought process in a computer model in this case, by understanding human language and the meaning of images together cognitive computing and artificial intelligence strive to endow machines with human – like behaviors and information Processing abilities.

D.   Computer Vision –

This refers to the field that focares on enabling computers to understand and interpret visual information just like humans do. It involves developing algorithms and techniques that allow machines to analyze and make sense of images and videos.

Applications of AI –

AI has a wide range of applications across various industries, the same common application include.

1.   Virtual Assistants –

AI Powers Virtual assistants like siri, Alexa and Google Assistants, which help with tasks like answering questions, setting reminders and proving recommendation.

2.   Health Care –

AI is used in medical imaging for diagnosis and treatment planning It can also analyze Patient data to assist in personalized medicine and drug discovery.

3.   Autonomous Vehicles –

AI enables self – driving cars to perceive and navigate their surroundings making transportation safer and more efficient.

4.   E – Commerce –

AI is used for personalized product recommendations, chat bots for customer service and fraud detection.

5.   Finance –

AI is used for fraud detection algorithmic trading credit scoring and risk assessment.

6.   Manufacturing –

AI is used for process automation, quality control, predictive maintenance and supply chain optimization.

❖   Advantages of AI

1.   Reduction in human error

As the work handovers from human to machine the term ``human error'' was coined If the Computers are programmed correctly, they do not make these errors happen As a result mistakes are decreased and the prospect of achieving better precision and accuracy is in creased.

2.   Accessibility –

AI has the Potential to make services and information more accessible to individual's with disabilities for example, AI powered speech recognition and natural language processing can enable people with visual impairments to interact with technology more easily.

3.   Digital Assistance –

For Reducing the requirement of human personnel, digital assistants are used by same of the most modern enterprises to engage with people many websites now utilize digital assistants to supply items that consumers seek.

4. For Ex.:

Organizations use AI to create a voice bot or a chatbot that can assist consumers with all of their questions. Many firms have already begun to use them on their websites and mobile applications.

5. Available 24×7

An average human will labor for 4-6 hours everyday without break humans are created in such a manner that they can take time off to replenish themselves and prepare for a new day at work and they even have weekly off days to keep their professional and home liver separate but unlike humans we can use AI to make robots work 24 hours a day, seven days a week with no breaks and they don't get bored easily.

❖ Disadvantages of AI

1. Job Placement –

As AI automates tasks, there is a concern that it may lead to job losses or the need for rescaling in certain industries. However, AI also creates new job opportunities in fields like data science and AI development.

2. Bias and Fitness –

AI Systems are only as good as the data they are trained on. If the data contains biases, the AI system may perpetuate those biases, leading to unfair outcomes or discrimination.

3. High cost of Implementation –

In building AI – Based machines computers etc. entails huge costs given the complexity of engineering that goes in to building one Further, the astronomical expense doesn't stop there as repair & maintenance also run into thousands of dollars.

Conclusion –

While concluding we can say that & observance results in tons of advantages like automating tasks, making things more efficient and personalizing experiences. But we should also be mindful of the potential disadvantages, like job displacement & privacy concerns by developing AI responsibly and addressing these concerns, we can enjoy the benefits while minimizing the drawbars AI is definitely an exacting technology that has potential to improve our lives in many ways!

Reference Books

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- The Algorithm Design Manual

- Getting Started with Chatbots

- Building an Enterprise Chatbo