Artificial Intelligence- An Overview

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Introduction:

Artificial Intelligence is the branch of computer science which deals with intelligence of machines where an intelligent agent is a system that takes action which maximizes its chances of success. Artificial Intelligence is the study of ideas which enables computers to do the things that make people seem intelligent. The central principal of Artificial Intelligence includes such as planning, reasoning, knowledge, learning, communication, perception and the ability to move and manipulate objects.

Artificial Intelligence

Artificial Intelligence is the machines that have the ability to think, t**o** make human life relaxed and luxurious the AI play an important role.AI Researchers wants to bring in the expressivemeasure to the machines along with the universal intelligence.

Philosophy of AI:

With the invention of computers, the process of manual work has been reduced to a great extent.Now that computers are used practically in every field, humans are highly dependent on it.

Human life is totally surrounded by machines and computer, this gave a thought as"***Can a machine think and behave like humans do?***" Though this was a general thought, it is the curiosity that leads to the development of AI.AI development has begun with an intention of developing intelligence in machines similar to that of humans.

Goals of AI:

The main AI goals are mentioned below

Creating expert systems:

The systems mentioned here should have the ability to display intelligent learn, reveal, behaviour, explain, and provide the users with preeminent advices.

Intelligenceare Implementing in machines:

This intends to develop systems which can realize, think, learn, and behave like humans.

Contributes to AI-

AI is the technology that is based on troops like Computer Science,Biology, Psychology,Linguistics, Mathematics, and Engineering.The focus of AI is to carry in development to computer functions associated with human intelligence, which includes reasoning, learning, and problem-solving.

Applications of AI:

Artificial intelligence (AI) has a gargantuan impact on many of the fields and some of them are mentioned below,

Gaming :

It plays an important role in strategic games like chess, tic tac toe etc. Here the machine should think for multiple probable steps based on experimental knowledge.

Natural Language Processing:

Able to communicate with the computers that understand human used natural language.

Expert Systems:

There are a few applications which incorporate machine, programming, and some special data to confer thinking and prompting. They give explanation and advice to the users.

Vision Systems:

These type of systems are able to understand, interpret and grasp visual input on the computer.Ex: A drone takes pictures, which are used to make sense of spatial data or guide of the zones and areas.

Speech Recognition:

Several systems which are able to recognize the language used by humans and talk to them. They can even distinguish the background noise, accent etc.

Handwriting Recognition:

This special software will be able to read the text written either by a pen or stylus on paper or screen respectively. It also understands the letter shapes and will convert it into editable text.

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Intelligent Robots:

Robot is the best formationof humans, which can do several tasks within no time. Though they cannot be alternate to humans but are very efficient when doing any tasks.They are comprised of sensors which detects few physical data like light, heat, hotness, movement, pressure etc just like humans. They also possess good processors and huge memory.The best part about these systems is that they are adaptable to the environment around them.

Artificial Intelligence- Advantages & Disadvantages:

Artificial Intelligence	
Advantages	**Disadvantages**
Error Reduction	High Cost
Difficult Exploration	No Replicating Humans
Daily Application	No Improvement with Experience
Digital Assistants	No Original Creativity
Repetitive Jobs	Unemployment
Medical Applications	
No Breaks	

Conclusion

Artificial intelligence is a necessity for today's generation and future of economy. It is used in daily of every human being. Various advantages & disadvantages of using applications of artificial intelligence. It is useful for new inventions in computer science or making entrepreneur and getting a maximum profit for successful utilization of available resources in an organization.

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