Artificial Intelligence in different field of life

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Introduction

Artificial Intelligence is a branch of Computer Science concerned with the study and creation of computer systems. AI exhibits some form of intelligence:

▪ Systems that learn new concepts and tasks,

▪ Can reason and draw valuable conclusions about the world.

Artificial Intelligence systems also can understand a natural language and comprehend a visual scene, and execute other types of feats that require human types of intelligence.

What is Artificial Intelligence?

"Artificial intelligence is the study of ideas to bring into being machines that respond to stimulation consistent with traditional responses from humans, given the human capacity for contemplation, judgment and intention. Each such machine should engage in critical appraisal and selection of differing opinions within itself. Produced by human skill and labour, these machines should conduct themselves in agreement with life and sensitivity, though in reality, they are imitations."

Applications of Artificial Intelligence:

Artificial Intelligence adoption has been observed at many areas. Some examples are following:

▪ Gaming:

Machines can now compete with humans in games with artificial intelligence.AI implementation can be seen in many strategic games such as poker, chess, tic-tac-toe, etc. Machines are empowered with ability to think of many positions based on self-learning knowledge.

▪ Banking:

AI application also lies in Anti-money laundering (AML). Money launderers hide their actions to increase their illegal money. This illegal is documented so well so as to give the illusion of legally earned money. Banking Industry across the world is shifting from traditional detection of AML to artificial intelligence based systems

▪ Healthcare:

AI application in healthcare lies in Diabetic Retinopathy Treatment, Medical Diagnosis, Risk Prediction and Automating Drug Discovery.

▪ Music and Movie Recommendation Services:

AI based apps like Spotify, Pandora, and Netflix recommend music and movies based on the interests of users and their past choices. This data collected is then fed into AI learning algorithm to suggest recommendations.

▪ Intelligent Robots:

Robots embedded with sensors such as sound, bump, pressure, heat, light and temperature can detect the physical data and perform the instructions by a human. They have efficient processors and huge memory to make smart decisions and exhibit intelligence. Intelligent Robots are also capable to learn from mistakes.

Artificial Intelligence in E-commerce:

Electronic commerce, or e-commerce, can be described as the buying and selling of goods and services on the Internet. E-Business is another term sometimes used in place of e-commerce. Examples of e-commerce sites are flip kart, eBay, infibeam.com etc. E-Commerce provides unique features of non-cash payment, 24x7 Service availability and improved sales. Following are some e-commerce models:

1. Business-to- Business (B2B)
2. Business-to- Consumer (B2C)
3. Consumer-to- Business (C2B)
4. Consumer-to-Consumer (C2C)
5. Government-to- Business (G2B)
6. Government-to- Citizen (G2C)

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AI helping e-commerce businesses get closer to their customers. With the facilities of AI, e-commerce platforms today are able to utilize large datasets regarding customer behaviour and usage patterns. Artificial intelligence self-learning algorithms can create personalized shopping experiences for online buyers.

AI and Education:

Artificial Intelligence research can make a valuable contribution to the education of human beings. An intellectual problem is solved in many cases, by dividing it into parts and developing a method for each sub problem. The sub problems are the same whether it is a computer or a person trying to solve the problem. If a certain technique proves valuable for the computer, it may be helpful for a human problem solver to be aware of the computer's methods.

Some scholars in cognitive science and education have planned the idea of intelligent CAI (computer assisted instruction), in which a computer would be programmed as a "tutor" that would notice the efforts of a student in solving a problem. The tutor would identify about some of the mistaken concepts people can have about a particular class of problem and would notice a student falling into one of those traps. It could then offer advice tailored to the needs of that individual student. A second educational benefit is indirect but eventually more important. By deliberately learning to imitate mechanical thinking, the learner becomes able to articulate what mechanical thinking is and what it is not. The exercise can lead to greater assurance about the ability to choose anintellectual style that suits the problem.

AI and Heavy Industry:

Robots have become common in many industries and are often given jobs that are considered dangerous to humans. Robots have proven effective in jobs that are very boring which may lead to mistake or accidents due to a lapse in concentration and other jobs which humans may find degrading.

Pros and cons of AI:

Pro's:

▪ AI would have a low mistake rate compared to humans, if coded properly. They would have incredible accuracy and speed.

▪ Swap humans in repetitive, tedious tasks and in many laborious places of work.

▪ Can notice fraud in card-based systems, and possibly other systems in the future.

▪ They can think logically without feelings, making rational decisions with less or no mistakes.

Con's:

▪ Can cost a lot and time to build, rebuild, and repair. Robotic repair can be used to reduce time and humans needing to fix it, but that'll cost more money and resources.

▪ Storage is expansive, but access and retrieval may not lead to connections in memory as well as humans could.

▪ Machines can easily lead to damage, if put in the wrong hands. That is, at least a fear of many humans.

Conclusion:

The field of artificial intelligence is truly a fascinating one. Like many other new technologies, AI is changing our lives every day. It is quite possible that the near future will bring intelligent machines to make life more convenient and comfortable for all of us. Although some may argue otherwise, there is no need to fear artificial intelligence. Like all other machines, AI machines do what human programmers tell them to do. There is, however, a need to understand AI, for it is through understanding that we can make the AI technology most beneficial.

While expert systems can be extremely helpful to human beings, there are tasks that current expert systems simply cannot accomplish. To return to our past example, the spellchecking utility can check mechanics of an article. However, it cannot check all important aspects of an article such as content and logic. The effort and research can bring the surprising innovations. There are also results which cannot be foreseen when the computer begins to think for itself. A computer it can be used in different ways depending on the user's needs.

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