
Application of Artificial Intelligence

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Introduction:

Intelligence is the ability of a software and hardware system which is used to calculation, reasoning, data analysis and perceive relationships and their comparison, store and retrieve information from memory, solve the problems, find complex ideas, to use natural languages dynamically and adapt new situations. While developing the power of the computer, the curiosity of human, lead to wonder, "Can a computer system think and behave like human being?" This is the idea came in the mind and development of AI started with the intention of creating similar intelligence in machines that can be find related to human mind. It is a way of making a computer, a computer-controlled robot, or a software think intelligently, in the similar manner the intelligent of human like. The main contributions of Artificial Intelligence which is the branch of Science and technology based on disciplines like Computer Science, Biology, Psychology, Linguistics, Mathematics. The reason behind this is to develop computer functions associated with human intelligence, such as reasoning, learning, and problem solving.

The main Philosophy and goals of AI is to (i) create Expert Systems which demonstrate intelligent behaviour, learn, explain and advice its users on expected topics. (ii) To Implement Human Intelligence in Machines, Creating systems that understand, think, learn, and behave like humans.

The history of AI

As per the definition of John McCarthy, who is a father of Artificial Intelligence and American computer scientist, the term "artificial intelligence" was born in 1956 at the Dartmouth Conference. And today, it is an umbrella terms that cover everything from robotic process automation to actual robotics. It has gained prominence recently due, in part, to big data, or the increase in speed, size and variety of data businesses now collect. AI can perform tasks such as identifying patterns in data more efficiently than humans, enabling businesses to gain more insight from their data.

Applications of Artificial Intelligence:

- **In education system** :AI can automate grading, giving educators more time. AI can assess students and adapt to their needs, helping them work at their own pace. AI tutorials can provide additional support to students, ensuring them to stay on track. AI can change the students that what and how students learn and can help for replacing the teachers.
- **In Financesystem** :- AI supports in personal finance applications and their operations, such as Mint or Turbo Tax, is disrupting financial institutions. It collects personal data and provides financial advice to the users. The software like IBM Watson, have been applied to the process of buying a home. Today, software performs much of the trading on Wall Street.
- **AI in law:-** The discovery process, sifting through the documents, law is often wonderful for humans. Automating this process is a more efficient use of time. Startups are also building question-and-answer, computer assistants that can sift programmed-to-answer questions by examining the classification associated with a database.
- **Use of AI in healthcare System** :-Healthcare is a biggest field in the world improving patient outcomes and reducing costs and trying to give worldwide health service at their home place. Companies are applying machine learning to make better and faster diagnosis than humans. One of the best known healthcare technologies is IBM Watson. It understands natural language and is capable of responding to questions asked to it. The system mines patient data and other available data sources to form a hypothesis, which it then presents a confident health reports. It helps schedule follow-up appointments of patients through the billing process and virtual health assistants that provide basic medical feedback.
- **AI in Trading** :- Robotic process automation is being applied to highly repetitive tasks normally performed by humans. Machine learning algorithms are being integrated into analytics and MIS platforms to non coverable information for better service to customers. Chatbots is a tool has been uploaded into websites to provide immediate service to customers.

AI in production system:- This is an area that has been at the forefront of replacing manual machine with

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robots into the workflow. Industrial robots used to perform single tasks and were separated from human workers, but as the technology advanced that changed. For eg, in MarutiUdyog Ltd, the assembly of four wheeler like fitting, spraying to the body like work are carried out with robots.

Conclusion and Recommendations for Implementation of AI

While AI tools present a range of new functionality for businesses, it raises some ethical questions. It is necessary in deep learning which underpin most of the advanced AI tools, only know what type of data used during training. Most available data sets for training likely contain traces of human bias. This in turn can make the AI tools biased in their function. In the cases like accident, it cannot clear the liability of the vehicles which are involved in accident. When thehackers are using the sophisticated tools to gain access to sensitive systems, there are complicated issues of security. The modified audio and video can be used for bad message and acting. These are the common challenges in application of AI.

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