ARTIFICIAL INTELLIGENCE IN DIFFERENT SPHERES

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Abstract

In this article are written about the importance of the artificial intelligence in different sphere. In addition, there are also mentioned many important dates of its intelligence applications such as speech recognition, computer vision, customer service, recommendation engines, automated stock trading.

Keywords: *Artificial Intelligence, customer service, recommendation engines, automated stock trading.*

Innovation and adaptation are enormously important to the manufacturing industry. This development should lead to maintainable manufacturing using new technologies. To support sustainability, smart production requires global perspectives of smart production application technology. In this regard, thanks to intensive research efforts in the field of artificial intelligence (AI), a number of AI-based techniques, such as machine learning, have already been well known in the industry to achieve sustainable manufacturing. “Artificial Intelligence is the Science and Engineering domain concerned with the theory and practice of developing systems that exhibit the characteristics we associate with intelligence in human behavior”.

Artificial Intelligence (AI) is the Science and Engineering domain concerned with the theory and practice of developing systems that demonstration the characteristics we associate with intelligence in human behavior, such as awareness, natural language processing, problem solving and planning, learning and adaptation, and acting on the environment. This scientific goal directly supports several engineering goals, such as, developing intelligent agents, formalizing knowledge and mechanizing reasoning in all areas of human effort, making working with computers as easy as working with people, and developing human-machine systems that exploit the complementariness of individual and automated reasoning.

Artificial Intelligence is a very broad interdisciplinary branch which has roots in and interconnects with many domains, not only all the computing disciplines, but also mathematics, linguistics, philosophy, psychology, neuroscience, economics, mechanical engineering, statistics, control theory and cybernetics and many others. It has accepted many concepts and methods from these domains, but it has also

contributed back.

While some of the developed systems, such as an expert or a planning system, can be written off as pure applications of AI, most of the AI systems are enhanced as components of complex applications to which they add intelligence in several ways, for instance, by enabling them to reason with knowledge, to process natural language, or to acquire and adapt.

Artificial intelligence researchers explore powerful techniques in their quest for realizing intelligent behavior. However, these techniques are unescapable and an AI when they reach mainstream use. Our learned examples include time-sharing, symbolic programming languages (e.g., Lisp, Prolog, and Scheme), symbolic mathematics systems (e.g., Mathematic), graphical user interfaces, computer games, object-oriented programming, the personal computer, email, hypertext, and even the software agents.

Artificial intelligence applications. There are several, real-world applications of AI systems nowadays. In this article, we emphasized below some examples of the most common:

- **Speech recognition:** It is also famous as automatic speech recognition (ASR), computer speech recognition, or speech-to-text, and it is a capability that uses natural language processing (NLP) to process human speech into a written format. Many mobile devices integrate speech recognition into their systems to conduct voice search - e.g. Siri - provide more accessibility around texting .
- **Customer service:** Online virtual agents are changing human agents along the customer journey. They answer frequently asked questions (FAQs) around topics, like shipping, or provide modified advice, cross-selling products or suggesting sizes for users, changing the way we think about customer appointment across websites and social media platforms. Examples contains messaging bots on e-commerce sites with virtual agents, messaging apps, such as Slack and Facebook Messenger, and tasks generally done by virtual assistants and voice assistants.
- **Computer vision:** This AI technology enables computers and systems to derive eloquent information from digital images, videos and other visual inputs, and based on those inputs, it can take action. This skill to provide recommendations distinguishes it from image recognition tasks. Powered by convolutional neural networks, computer vision has applications within photo labelling in social media, radiology imaging in healthcare, and self-driving cars within the automotive industry.
- **Recommendation engines:** Using past consumption behavior information, AI algorithms can help to discover data trends that can be used to develop more effective cross-selling strategies. This is used to make relevant add-on recommendations to customers through the checkout process for online retailers.

- **Automated stock trading:** Designed to optimize ordinary portfolios, AI-driven high-frequency trading platforms make thousands or even millions of trades per day without human intervention.

We can conclude from above that artificial intelligence can be used in speech recognition, computer vision, customer service; recommendation engines, automated stock trading and we can construct many programs with it.

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