



Artificial Intelligence and Its Review

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ABSTRACT

In the current period artificial intelligence is the wide concept that all humans are curiously preparing algorithms to establish it everywhere. The work we have done is based on Artificial Intelligence . Artificial intelligence is very much important because that can reduce stress of human beings and do the work automatically according to the human knowledge and it will think how the humans thinks, where it is programmed by humans .The researchers studied about Artificial intelligence to help human in many ways. The algorithms are built and came out in such a way that humans will get accurate solution to their problems. in this research paper we done about AI and defined AI ,its advantages, and also mentioned applications of AI . we have researched some points about the use of AI in healthcare. we have taken the example of robots that works by artificial intelligence and where it is implemented and also how it works .

I. INTRODUCTION

In today's computing world, technology is growing very fast and wide, and we people are exploring new engrossing technologies for our convenience, also getting in touch with different new soft-wares day by day.

Here one of the intensifying technologies in computer science is ARTIFICIAL INTELLIGENCE[1] which is ready to create a new revolutionizing world by making intelligent machines which does magical things over the world. The artificial intelligence occupied all around us. It is currently dealing with a variety of subfields, ranging from general to specific such as self-driving cars, playing chess, proving theorems, playing music, painting, etc.

AI is one of the most fascinating and universal fields of computer science which has a great scope in the present and future. AI holds a tendency to make a

machine to work as a human, which means it acts the same as a human does but behind the background, it's all developed by humans itself.

Artificial intelligence

It is an approach to make a computer or a robot or a product to think that how human thinks. AI will learn, decide, develop, analyze and work and repeat the process. when it tries to solve problems it analyses and finally this study outputs intelligent software systems. [2]The ambition of AI is to improve computer functions which are related to human knowledge it is composed of Reasoning, learning, problem-solving, precision, linguistic intelligence.

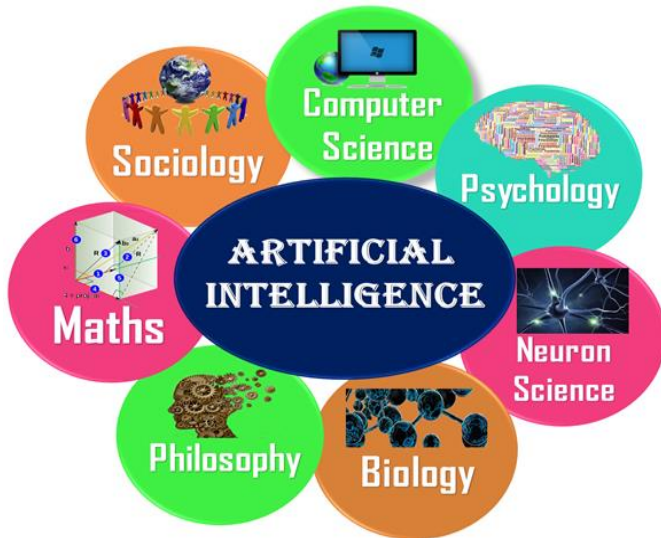


Fig.1.artificial intelligence

AI is a combination of two words artificial and intelligence, where artificial defines “human-made”, and intelligence defines “assuming power”, hence AI means “a human-made assuming power “.

Before grabbing information about artificial intelligence, we should know that what is the importance of AI and why should we learn and make it a resource to overcome our problems

Definition : It refers to software functions that replace human intelligence in the performance of certain works. it is truly a wonderful topic in computer science set to become a strong foundation of all the latest software over the upcoming periods and quadrants. [4] Artificial intelligence, the skill of an electronic computer or system-controlled robot to execute tasks that are generated by human intelligence and process the project by developing the characteristics of human beings.

These are some reasons to learn about AI : With the help of AI, you can create such software or device which can solve real-world problems very easily and gives accurate solutions in no time such as health issues, marketing, traffic issues, google typing, auto-correction, etc.,[3] you can create your personal assistant, such as Google Assistant, Siri, Alexa, etc. AI opens a way for other new technologies, new software

devices, Similar to human intelligence, gives exact news related to real-world problems

Goals of AI

Replicate human intelligence, solve knowledge intensive tasks an intelligent connection of perception and action , creating some system which can exhibit intelligent behaviour , learn new things by itself ,demonstrate , explain ,and can advise to its user .

There are some of the advantages

High accuracy with errors:-AI machines or systems are prone to less errors and high accuracy as it takes decisions as per pre-experience information

High speed :-AI system can be of very high-speed and fast-decision making , because of that[5] AI systems can beat a chess champion in the chess game

High reliability:- AI machines can be highly reliable and can perform the same action multiple time with high accuracy and also useful for risky areas ,digital assistant, useful as a public utility.

APPLICATIONS OF ARTIFICIAL INTELLIGENCE

Artificial intelligence can modify various aspects of healthcare. It decreases annual expenses, in case of any diseases, it detects early and suggests the proper way to get rid of it.

Artificial intelligence can help patients in many ways if, in case of any disease which couldn't identify by doctors, it will recognize early before the doctors.[5] Also, that helps doctors, administrators, staff members such as maintaining records of patients, consulting patients, general check-ups, etc.



Fig 2. Artificial Intelligence

a. Medical records: -

Every two years, the amount of available data in the world doubles. So the workload will be more, also it requires more staff members to do different works with highly qualified medical personals for the organization to maintain such records. fortunately, this [8]AI is doing wonderful job in spite of humans to overcome from this problem.

b. clinical decision making: -

It helps in the decision of cost for the particular treatment and tells the patients before get admitted.[10] And also it decides that what exact treatment should be guided in preferences to the patients.

c.AI powered health assistants

instead of bugging information about symptoms that a person is suffering from you can ask virtual assistants which is powered by [11] AI will be available 24/7 whenever you want to know you can ask as many questions as you can it gives proper information instead of coming and waiting to get an appointment, you can sit at home and take appointment from particular doctors from particular location.

Robots and Artificial Intelligence

The feature of AI is one of the interesting and promising technology in the field of robotics. which helps in hospitality, traveling, hotel industries.[13] It mimics the human's intelligence and performs tasks. Some tasks are autonomous and some are semi-autonomous. *examples from around the world.*

When discussing robots and their uses, it is important to first establish what they actually are. In simple terms, a robot is a machine, which has been built to carry out complex actions or tasks automatically. Some robots are designed to resemble humans and these are called androids, but many robots do not take such a form.

Modern robots can be either autonomous or semi-autonomous and may make use of artificial intelligence (AI) and speech recognition technology. With that being said, most robots are programmed to perform specific tasks with great precision, with an example being the industrial robots seen in factories or production lines.

Robots and Artificial Intelligence

The use of artificial intelligence within the field of robotics is one of the most exciting and promising applications for individuals and businesses operating within the hotel or hospitality industry. Nevertheless, this is another complex area, where a clearer understanding is necessary.

Essentially, artificial intelligence refers to the performance of seemingly intelligent tasks, which mimic human cognitive functions. Although there is no precise definition of what constitutes artificial intelligence, problem solving, reasoning, understanding human speech and autonomous navigation are typically viewed as examples of AI.

Therefore, references to artificially intelligent robots will usually be describing robots that have been designed to be able to achieve some of these *'intelligent'* tasks or functions.

10. Robots in the Hospitality Industry

Part of the reason why robots have emerged as a popular technology trend within the hospitality industry is because ideas of automation and self-service are playing an increasingly vital role in

the customer experience. The use of robots can lead to improvements in terms of speed, cost-effectiveness and even accuracy.

For example, chatbots allow a hotel or travel company to provide 24/7 support through online chat or instant messaging services, even when staff would be unavailable, delivering extremely swift response times. Meanwhile, a robot used during the check-in process can speed up the entire process, reducing congestion.

Examples of the Use of Robots within the hospitality industry

Below, you will find a list of eight current uses of robots within the hospitality industry.

a. A Tour of the World's First Robot-Staffed Hotel

Situated in Nagasaki, Japan, Henn-na Hotel became the first hotel in the world to be entirely staffed by robots. Throughout the hotel, robots are deployed to provide information, front desk services, storage services, as well as check in and check out services, with technology including voice and facial recognition.

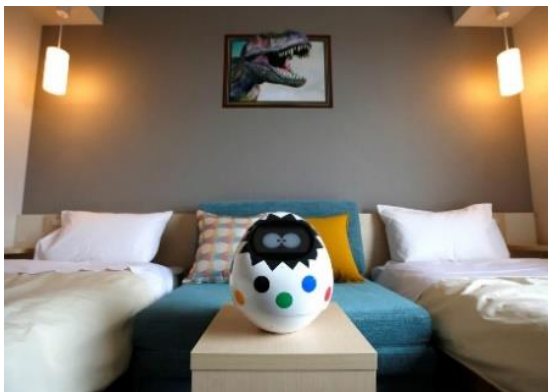


Fig.3.artificial intelligence



Fig.4.artificial intelligence

b. Meet Connie, the Hilton Robot Concierge

Connie is a robot concierge, used by Hilton. The robot makes use of an artificial intelligence platform developed by IBM, and is able to interact with guests and respond to their questions, thanks to its speech recognition capabilities. The system also learns and adapts with each interaction, improving the answers it provides.



Fig.6.artificial intelligence

c. A Robot Suitcase Called Travel mate

Away from the hotel industry, Travel mate is an example of robotics being used for luggage purposes. Essentially, it is an autonomous suitcase, which is able to follow you on its own. It makes use of anti-collision technology, has 360 degree turning capabilities and eliminates the need for carrying, pulling or pushing a suitcase around.



Fig.5.artificial intelligence

d. A Robot Assistant for Airports and Hotels

Airports and hotels are increasingly making use of robotic assistants, transforming the entire hospitality industry. These assistants are capable of carrying out various tasks, including room service and information provision. A key advantage is the ability for robots to offer support for a variety of different languages.

e. A Robot for Travel Agencies

Some travel agents are also looking into the use of robots, especially as a means of pre-qualifying customers. For example, Amadeus have experimented with a robot called 1A-TA, which is powered by artificial intelligence. Rather than forcing customers to wait during busy periods, the robot is able to immediately get to work, finding out about their needs and preferences and passing the information on when they actually speak to a human travel agent.

e. A Chatbot to Make Your Flight or Hotel Booking

To date, chatbots have been one of the most common uses of robots within the hospitality sector and these can be used to deliver basic customer service, or for more complex tasks, like hotel or flight bookings. A great example of this is the SnatchBot Booking Travel Template, which intelligently guides customers through the booking process.

f. Security Robots for Airports

Airport security is one of the most important areas where new technology is deployed and robots are in use here too. One particularly strong example of this is the Knightscope robots that are increasingly being

used to autonomously detect concealed weapons, helping to keep passengers safe during their flights.



Fig.7.artificial intelligence

g. More Examples of Robots in the Hospitality Industry

There are a number of additional uses for robots, especially within the hotel industry. For instance, as the following video will show, there are examples of robot butlers and robot luggage porters, which make use of a variety of technologies, including collision detection, Wi-Fi and AI, in order to navigate hotels and provide services.

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