ARTIFICIAL INTELLIGENCE

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Artificial Intelligence

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- What is Artificial Intelligence
- HOW DOES ARTIFICIAL INTELLIGENCE WORK
- HOW IS AI USED
- ARTIFICIAL INTELLIGENCE EXAMPLES

Artificial intelligence (AI) refers to the simulation of human intelligence in machines that are programmed to think like humans and mimic their actions. The term may also be applied to any machine that exhibits traits associated with a human mind such as learning and problem-solving.

The ideal characteristic of artificial intelligence is its ability to rationalize and take actions that have the best chance of achieving a specific goal. A subset of artificial intelligence is machine learning, which refers to the concept that computer programs can automatically learn from and adapt to new data without being assisted by humans. Deep learning techniques enable this automatic learning through the absorption of huge amounts of unstructured data such as text, images, or video.

This the main page for the project

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<body>
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What is Artificial Intelligence

Artificial intelligence (AI) is a wide-ranging branch of computer science concerned with building smart machines capable of performing tasks that typically require human intelligence . AI is an interdisciplinary science with multiple approaches, but advancements in machine learning and deep learning are creating a paradigm shift in virtually every sector of the tech industry.

What types of Artificial Intelligence

AI type-1: Based on Capabilities

1. Weak AI or Narrow AI:

Narrow AI is a type of AI which is able to perform a dedicated task with intelligence. The most common and currently available AI is Narrow AI in the world of Artificial Intelligence. Narrow AI cannot perform beyond its field or limitations, as it is only trained for one specific task. Hence it is also termed as weak AI. Narrow AI can fail in unpredictable ways if it goes beyond its limits. Apple Siriis a good example of Narrow AI, but it operates with a limited pre-defined range of functions. IBM's Watson supercomputer also comes under Narrow AI, as it uses an Expert system approach combined with Machine learning and natural language processing. Some Examples of Narrow AI are playing chess, purchasing suggestions on e-commerce site, self-driving cars, speech recognition, and image recognition.

2. General AI:

General AI is a type of intelligence which could perform any intellectual task with efficiency like a human. The idea behind the general AI to make such a system which could be smarter and think like a human by its own. Currently, there is no such system exist which could come under general AI and can perform any task as perfect as a human. The worldwide researchers are now focused on developing machines with General AI. As systems with general AI are still under research, and it will take lots of efforts and time to develop such systems.

3. Super AI:

Super AI is a level of Intelligence of Systems at which machines could surpass human intelligence, and can perform any task better than human with cognitive properties. It is an outcome of general AI. Some key characteristics of strong AI include capability include the ability to think, to reason,solve the puzzle, make judgments, plan, learn, and communicate by its own. Super AI is still a hypothetical concept of Artificial Intelligence. Development of such systems in real is still world changing task.

Artificial Intelligence type-2: Based on functionality

1. Reactive Machines

Purely reactive machines are the most basic types of Artificial Intelligence. Such AI systems do not store memories or past experiences for future actions. These machines only focus on current scenarios and react on it as per possible best action. IBM's Deep Blue system is an example of reactive machines. Google's AlphaGo is also an example of reactive machines.

2. Limited Memory

Limited memory machines can store past experiences or some data for a short period of time. These machines can use stored data for a limited time period only. Self-driving cars are one of the best examples of Limited Memory systems. These cars can store recent speed of nearby cars, the distance of other cars, speed limit , and other information to navigate the road.

3. Theory of Mind

Theory of Mind AI should understand the human emotions, people, beliefs, and be able to interact socially like humans. This type of AI machines are still not developed, but researchers are making lots of efforts and improvement for developing such AI machines.

4. Self-Awareness

Self-awareness AI is the future of Artificial Intelligence. These machines will be super intelligent, and will have their own consciousness, sentiments, and self-awareness. These machines will be smarter than human mind. Self-Awareness AI does not exist in reality still and it is a hypothetical concept.

This the first page and talk about definitions and types of an artificial intelligence

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HOW DOES ARTIFICIAL INTELLIGENCE WORK

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Artificial Intelligence garners more frontpage headlines every day. Artificial Intelligence, or AI, is the technology enabling machines to learn from experience and perform human-like tasks.

Ping-ponging between utopian and dystopian, opinions vary wildly regarding the current and future applications, or worse, implications, of artificial intelligence. Without the proper moorings, our minds tend to drift into Hollywood-manufactured waters, teeming with robot revolutions, autonomous cars, and very little understanding of how AI actually works.

This is mostly due to the fact that AI in itself is describing different technologies, which provide machines the ability to learn in an intelligent way.

In our coming series of blog posts, we hope to shed light on these technologies and clarify just what it is that makes artificial intelligence, well, intelligent.

How is artificial intelligence applied?

Popular misconceptions tend to place AI on an island with robots and self-driving cars. However, this approach fails to recognize artificial intelligenceâ€™s major practical application; processing the vast amounts of data generated daily.

By strategically applying AI to certain processes, insight gathering and task automation occur at an otherwise unimaginable rate and scale.

Parsing through the mountains of data created by humans, AI systems perform intelligent searches, interpreting both text and images to discover patterns in complex data, and then act on those learnings.

What are the basic components of artificial intelligence?

Many of Aliâ€™s revolutionary technologies are common buzzwords, like â€œnatural language processing,â€ â€œdeep learning,â€ and â€œpredictive analytics.â€ Cutting-edge technologies that enable computer systems to understand the meaning of human language, learn from experience, and make predictions, respectively.

Understanding AI jargon is the key to facilitating discussion about the real-world applications of this technology. The technologies are disruptive, revolutionizing the way humans interact with data and make decisions, and should be understood in basic terms by all of us.

This the second page, it’s learn us how the artificial intelligence work ,applied and what are components of it.

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How it's using AI	That makers of the popular Roomba, iRobot, are back with a new, much smarter robotic vacuum. The Roomba 980 model uses artificial intelligence to scan room size, identify obstacles and remember the most efficient routes for cleaning. The self-deploying Roomba can also determine how much vacuuming there is to do based on a room's size, and it needs no human assistance to clean floors. The company completed its first year as a purely consumer-focused business in 2017, pulling in $883.9 million in revenue, and has shipped more than 10 million Roombas since 2002	Hanson Robotics is building humanoid robots with artificial intelligence for both the commercial and consumer markets. The Hanson-created Sophia (pictured above) is an incredibly advanced social-learning robot. Through AI, Sophia can efficiently communicate with natural language and use facial expressions to convey human-like emotions. Sophia has become something of a media celebrity over the past few years, featured on various talk shows, including a memorable appearance with a clearly weirded-out Jimmy Fallon on The Tonight Show. The robot has even accepted citizenship from Saudi Arabia. Hanson plans to introduce an entire line of robots like Sophia, which they believe "have immediate applications as media personalities in movies and TV shows, entertainment animatronics in museums and theme parks, and for university research and medical training applications."	Emotech is the creator of Olly a voice-controlled AI assistant similar to Amazon Alexa or Google Home, but with one distinct difference â€" Olly has an evolving personality. Olly's personality comes from a mix of machine learning algorithms that teach the robot to gradually be more like its owner. Emotech's AI-powered technology can understand a userâ€™s facial expressions, voice inflections and verbal patterns to proactively start conversations and make pertinent suggestions. The small, robotic table-top assistant is also capable of movement, orienting itself toward the user when determining what to do next. Olly's abilities are far beyond anything current voice assistants are capable of doing. For example, if Olly sees you resting your head, it may ask if you've had a long day and then suggest some of your favorite music to help you unwind. See for yourself

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Industry leaders still cant agree on what the term robot embodies. Roboticists understand robots to be programmable machines that carry out tasks, but nobody can pinpoint exactly where that definition ends.

Today's AI-powered robots, or at least those machines deemed as such, possess no natural general intelligence, but they are capable of solving problems and "thinking" in a limited capacity.

From working on assembly lines at Tesla to teaching Japanese students English, examples of artificial intelligence in the field of robotics are plentiful.

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Industry	Consumer Electronics, Software, Hardware	Robotics, Artificial Intelligence	obotics, AI, Hardware
Location	Bedford, Mass.	Hong Kong	London
pictures			

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