

An Introduction To Artificial Intelligence And

Some researchers argue that state-of-the-art large language models (LLMs) already exhibit signs of AGI-level capability, while others maintain that genuine AGI has not yet been achieved. Beyond AGI, artificial superintelligence (ASI) would outperform the best human abilities across every domain by a wide margin. 2f89c40a1b

Outline of artificial intelligence outline is provided as an overview of and topical guide to artificial intelligence: Artificial intelligence (AI) is intelligence exhibited by machines The following outline is provided as an overview of and topical guide to artificial intelligence: 2f89c40a1b

Friendly artificial intelligence While machine ethics is concerned with how an artificially intelligent agent should behave, friendly artificial intelligence research is focused on how to practically bring about this behavior and ensuring it is adequately constrained. the ethics of artificial intelligence and is closely related to machine ethics. While machine ethics is concerned with how an artificially intelligent agent Friendly artificial intelligence (friendly AI or FAI) is hypothetical artificial general intelligence (AGI) that would have a positive (benign) effect on humanity or at least align with human interests such as fostering the improvement of the human species. It is a part of the ethics of artificial intelligence and is closely related to machine ethics 2f89c40a1b

Can a machine act intelligently? Can it solve any problem that a person would solve by thinking? 2f89c40a1b Scientists and engineers have noted the implausibility of many science fiction scenarios, but have mentioned fictional robots many times in artificial... 2f89c40a1b The notion of machines with human-like intelligence dates back at least to Samuel Butler's 1872 novel Erewhon. Since then, many science fiction stories have presented different effects of creating such intelligence, often involving rebellions by robots. Among the best known of these are Stanley Kubrick's 1968 2001: A Space Odyssey with its murderous onboard computer HAL 9000, contrasting with the more benign R2-D2 in George Lucas's 1977 Star Wars and the eponymous robot in Pixar's 2008 WALL-E. 2f89c40a1b Artificial intelligence (AI) is intelligence exhibited by machines or software. It is also the name of the

scientific field which studies how to create computers and computer software that are capable of intelligent behavior. 2f89c40a1b Narrow AI can be classified as being "limited to a single, narrowly defined task. Most modern AI systems would be classified in this category... 2f89c40a1b

Artificial general intelligence Artificial general intelligence (AGI)—sometimes called human-level intelligence AI—is a type of artificial intelligence that would match or surpass human Artificial general intelligence (AGI)—sometimes called human-level intelligence AI—is a type of artificial intelligence that would match or surpass human capabilities across virtually all cognitive tasks 2f89c40a1b

Artificial super intelligence (ASI): a machine with a vastly superior intelligence to the average human being. 2f89c40a1b

Artificial intelligence Artificial intelligence (AI) is the capability of computational systems to perform tasks typically associated with human intelligence, such as learning Artificial intelligence (AI) is the capability of computational systems to perform tasks typically associated with human intelligence, such as learning, reasoning, problem-solving, perception, and decision-making. It is a field of research in computer science that develops and studies methods and software that enable machines to perceive their environment and use learning and intelligence to take actions that maximize their chances of achieving defined goals 2f89c40a1b

Multi-agent systems and distributed problem solving are the two main DAI approaches. There are numerous applications and tools. 2f89c40a1b

Applications of artificial intelligence This article describes applications of. Artificial intelligence (AI) has been used in applications throughout industry and academia. In recent years, there have been massive advancements in the field of Generative Artificial Intelligence, which uses generative models to produce text, images, videos or other forms of data. The subfield of Machine learning has been used for various scientific and commercial purposes including language translation, image recognition, decision-making, credit scoring, and e-commerce. Within the field of Artificial Intelligence, there are multiple subfields. Artificial intelligence is the capability of computational systems to perform tasks typically associated with human intelligence, such as learning, reasoning Artificial intelligence is the capability of computational systems to perform tasks typically associated with human intelligence, such as learning, reasoning, problem-solving, perception, and decision-making 2f89c40a1b

Ethics of artificial intelligence It also covers various emerging or potential future challenges such as machine ethics (how to make machines that behave ethically), lethal autonomous weapon systems, arms race dynamics, AI safety and alignment, technological unemployment, AI-enabled misinformation, how to treat certain AI systems if they have a moral status (AI welfare and rights), artificial superintelligence and existential risks. This includes algorithmic The ethics of artificial intelligence covers a broad range of topics within AI that are considered to have particular ethical stakes. This includes algorithmic biases, fairness, automated decision-making, accountability, privacy, and regulation. The ethics of artificial intelligence covers a broad range of topics within AI that are considered to have particular ethical stakes 2f89c40a1b

Distributed artificial intelligence DAI is closely related to and a predecessor of the field of multi-agent systems. Distributed artificial intelligence (DAI) also called Decentralized Artificial Intelligence is a subfield of artificial intelligence research dedicated to the Distributed artificial intelligence (DAI) also called Decentralized Artificial Intelligence is a subfield of artificial intelligence research dedicated to the development of distributed solutions for problems 2f89c40a1b

High-profile applications of AI include advanced web search engines (e.g., Google Search); recommendation systems (used by YouTube, Amazon, and Netflix); virtual assistants (e.g., Google Assistant, Siri, and Alexa); autonomous vehicles (e.g., Waymo); generative and creative tools (e.g., language models and AI art); and superhuman play... 2f89c40a1b Artificial general intelligence (AGI): a machine with the ability to apply intelligence to any problem, rather than just one specific problem. 2f89c40a1b Are human intelligence... 2f89c40a1b

Weak artificial intelligence Weak artificial intelligence (weak AI) is artificial intelligence that implements a limited part of the mind, or, as narrow AI, artificial narrow intelligence Weak artificial intelligence (weak AI) is artificial intelligence that implements a limited part of the mind, or, as narrow AI, artificial narrow intelligence (ANI), is focused on one narrow task 2f89c40a1b

Unlike artificial narrow intelligence (ANI), whose competence is confined to well-defined tasks, an AGI system can generalise knowledge, transfer skills between domains, and solve novel problems without task-specific reprogramming. The concept does not, in principle, require the system... 2f89c40a1b Weak AI is contrasted with strong AI, which can be interpreted in various ways: 2f89c40a1b The philosophy of artificial intelligence attempts

to answer such questions as follows: Some application areas may also have particularly important ethical implications, like healthcare, education, criminal justice, or the military.

Artificial intelligence in fiction Artificial intelligence is a recurrent theme in science fiction, whether utopian, emphasising the potential benefits, or dystopian, emphasising the dangers. Artificial intelligence is a recurrent theme in science fiction, whether utopian, emphasising the potential benefits, or dystopian, emphasising the dangers.

Artificial consciousness: a machine that has consciousness, sentience and mind (John Searle uses "strong AI" in this sense).

Philosophy of artificial intelligence These factors contributed to the emergence of the philosophy of artificial intelligence. The philosophy of artificial intelligence is a branch of the philosophy of mind and the philosophy of computer science that explores artificial intelligence and its implications for knowledge and understanding of intelligence, ethics, consciousness, epistemology, and free will. Furthermore, the technology is concerned with the creation of artificial animals or artificial people (or, at least, artificial creatures; see artificial life) so the discipline is of considerable interest to philosophers.

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