

Artificial Intelligence And Machine Learning

Artificial intelligence in industry

site optimization, predictive analysis and insight discovery. Artificial intelligence and machine learning have become key enablers to leverage data

Industrial artificial intelligence, or industrial AI, usually refers to the application of artificial intelligence to industry and business. Unlike general artificial intelligence which is a frontier research discipline to build computerized systems that perform tasks requiring human intelligence, industrial AI is more concerned with the application of such technologies to address industrial pain-points for customer value creation, productivity improvement, cost reduction, site optimization, predictive analysis and insight discovery.

Artificial intelligence and machine learning have become key enablers to leverage data in production in recent years due to a number of different factors: More affordable sensors and the automated process of data acquisition; More powerful computation capability...

Artificial intelligence in healthcare

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Artificial intelligence in healthcare is the application of artificial intelligence (AI) to analyze and understand complex medical and healthcare data. In some cases, it can exceed or augment human capabilities by providing better or faster ways to diagnose, treat, or prevent disease.

As the widespread use of artificial intelligence in healthcare is still relatively new, research is ongoing into its applications across various medical subdisciplines and related industries. AI programs are being applied to practices such as diagnostics, treatment protocol development, drug development, personalized medicine, and

patient monitoring and care. Since radiographs are the most commonly performed imaging tests in radiology, the potential for AI to assist with triage and interpretation of radiographs...

Artificial intelligence

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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.

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...

Machine learning

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Machine learning (ML) is a field of study in artificial intelligence concerned with the development and study of statistical algorithms that can learn from data and generalise to unseen data, and thus perform tasks without explicit instructions. Within a subdiscipline in machine learning, advances in the field of deep learning have allowed neural networks, a class of statistical algorithms, to surpass many previous machine learning approaches in performance.

ML finds application in many fields, including natural language processing, computer vision, speech recognition, email filtering, agriculture, and medicine. The application of ML to business problems is known as predictive analytics.

Statistics and mathematical optimisation (mathematical programming) methods comprise the foundations of...

Applications of artificial intelligence

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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. Artificial intelligence (AI) has been used in applications throughout industry and academia. Within the field of Artificial Intelligence, there are multiple subfields. 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. 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. This article describes applications of...

Explainable artificial intelligence

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Within artificial intelligence (AI), explainable AI (XAI), often overlapping with interpretable AI or explainable machine learning (XML), is a field of research that explores methods that provide humans with the ability of intellectual oversight over AI algorithms. The main focus is on the reasoning behind the decisions or predictions made by the AI algorithms, to make them more understandable and transparent. This addresses users' requirement to assess safety and scrutinize the automated decision making in applications. XAI counters the "black box" tendency of machine learning, where even the AI's designers cannot explain why it arrived at a specific decision.

XAI hopes to help users of AI-powered systems perform more effectively by improving their understanding of how those systems reason...

Distributed artificial intelligence

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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. DAI is closely related to and a predecessor of the field of multi-agent systems.

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

Artificial intelligence marketing

Artificial intelligence marketing is a form of marketing that uses artificial intelligence concepts and models such as machine learning, natural language

Artificial intelligence marketing is a form of marketing that uses artificial intelligence concepts and models such as machine learning, natural language processing, and computer vision to achieve marketing goals. The main difference between artificial

intelligence marketing and traditional forms of marketing resides in the reasoning, which is performed through a computer algorithm rather than a human.

Each form of marketing has a different technique to the core of the marketing theory. Traditional marketing directly focuses on the needs of consumers; meanwhile some believe the shift AI may cause, will lead marketing agencies to manage consumer needs instead.

Artificial Intelligence is used in various digital marketing spaces, such as content marketing, email marketing, online advertisement...

Outline of artificial intelligence

as an overview of and topical guide to artificial intelligence: Artificial intelligence (AI) is intelligence exhibited by machines or software. It is

The following outline is provided as an overview of and topical guide to artificial intelligence:

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.

Age of artificial intelligence

transition from the Information Age to a new era where artificial intelligence enables machines to learn and make intelligent decisions to achieve a set of defined

The Age of artificial intelligence, also known as the Age of Intelligence, the AI Era, or the Cognitive Age, is a historical period characterized by the rapid development and widespread integration of artificial intelligence (AI) technologies across various aspects of society, economy, and daily life. It marks the transition from the Information Age to a new era where artificial intelligence enables machines to learn and make intelligent decisions to achieve a set of defined goals.

MIT physicist Max Tegmark was one of the first people to use the term "Age of Artificial Intelligence" in his 2017 non-fiction book *Life 3.0: Being Human in the Age of Artificial Intelligence*.

This era is marked by significant advancements in machine learning, data processing, and the application of AI in solving...

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