



# Artificial Intelligence



## What is Artificial Intelligence?

It is intelligence exhibited by machines, particularly computer systems, as opposed to the natural intelligence of living beings. It is a field of research in computer science that develops and studies methods and software which enable machines to perceive their environment and uses learning and intelligence to take actions that maximize their chances of achieving defined goals.

## Where is AI used?

AI technology is widely used throughout industry, government, and science. Some high-profile applications include advanced web search engines, recommendation systems, interacting via human speech, autonomous vehicles, generative and creative tools, and superhuman play and analysis in strategy games.

## Main goals



### Knowledge representation

Knowledge representation and knowledge engineering allow AI programs to answer questions intelligently and make deductions about real-world facts.



### Natural language processing

Natural language processing (NLP) allows programs to read, write and communicate in human languages such as English.



### Perception

Machine perception is the ability to use input from sensors (such as cameras, microphones, radars) to deduce aspects of the world.

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[https://en.wikipedia.org/wiki/Artificial\\_intelligence](https://en.wikipedia.org/wiki/Artificial_intelligence)



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## Ethics of AI

These rapid changes raise profound ethical concerns. These arise from the potential AI systems have to embed biases, contribute to climate degradation, threaten human rights and more. Such risks associated with AI have already begun to compound on top of existing inequalities, resulting in further harm to already marginalised groups.

## UNESCO Recommendation

UNESCO produced the first-ever global standard on AI ethics – the ‘Recommendation on the Ethics of Artificial Intelligence’ in November 2021. The protection of human rights and dignity is the cornerstone of the Recommendation, based on the advancement of fundamental principles such as transparency and fairness, always remembering the importance of human oversight of AI systems.

## What is AI Act?



### Law

The use of artificial intelligence in the EU will be regulated by the AI Act, the world's first comprehensive AI law. Find out how it will protect you.



### Regulation

AI systems that can be used in different applications are analysed and classified according to the risk they pose to users.



### Levels of risk

The new rules establish obligations for providers and users depending on the level of risk from artificial intelligence.

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<https://www.europarl.europa.eu>

<https://www.unesco.org/en/artificial-intelligence/recommendation-ethics>