

Artificial Intelligence (AI)

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Discussion

Artificial Intelligence describes a capability rather than a particular system, model, algorithm, product, or implementation technology.

An engineered system may exhibit this capability through techniques such as machine learning, knowledge representation, reasoning, planning, optimization, natural-language processing, computer vision, or combinations of these techniques.

Artificial Intelligence should be distinguished from an Artificial Intelligence System. Artificial Intelligence is the capability. An Artificial Intelligence System is an engineered system that implements or uses one or more Artificial Intelligence capabilities.

Definition

capability of an engineered system to acquire, process, and apply knowledge and skills

Source

- [ISO/IEC 22989:2022, Information technology — Artificial intelligence — Artificial intelligence concepts and terminology](#)
- [NIST Computer Security Resource Center, Artificial Intelligence](#)

Note

Artificial Intelligence does not require a system to reproduce the full range of human intelligence or consciousness.

Whether a capability qualifies as Artificial Intelligence depends on the applicable context, objectives, and criteria. A capability considered Artificial Intelligence in one context may be treated as conventional automation in another.

The term should not be used as a substitute for the more specific technique, model, system, or service when that information is known.

Example

A system that analyzes financial transactions, identifies anomalous patterns, and applies learned knowledge to recommend transactions for further review exhibits an Artificial Intelligence capability.

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