

Artificial **intelligence** (AI) refers to the **simulation** of human intelligence in **machines**, enabling them to perform **tasks** that typically require human **cognitive** abilities. These tasks include **learning**, **reasoning**, **problem-solving**, **perception**, **language understanding**, and **decision-making**. AI systems can be rule-based (symbolic AI) or use **machine learning**, including **deep learning**, to improve **performance** through **experience**. AI is applied in various fields such as healthcare, finance, robotics, and **natural language processing**.

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