

Artificial Intelligence Research Report

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Artificial Intelligence (AI) refers to systems designed to perform tasks that normally require human intelligence. These tasks include reasoning, learning, perception, and language understanding.

Machine learning is a branch of AI focused on statistical techniques that allow systems to improve performance through data. Supervised learning, unsupervised learning, and reinforcement learning are core paradigms.

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Natural Language Processing (NLP) enables machines to process and generate human language. Applications include chatbots, translation systems, and sentiment analysis.

Computer Vision allows systems to interpret visual information from images and videos. It is widely used in medical imaging, autonomous vehicles, and surveillance systems.