

Reinforcement Learning

Your Name

Your Institution

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Overview

- What is reinforcement learning?
- Applications of reinforcement learning
- How does reinforcement learning work?

What is Reinforcement Learning?

Reinforcement learning is a type of machine learning algorithm that learns by interacting with its environment and receiving feedback in the form of rewards. It is used to solve problems that involve making decisions based on incomplete or uncertain information.

Applications of Reinforcement Learning

Some examples of applications of reinforcement learning include:

- Robotics
- Game playing (e.g. chess, Go)
- Control of complex systems (e.g. traffic control)
- Healthcare

How Does Reinforcement Learning Work?

Reinforcement learning algorithms learn by trial and error, through a process known as reinforcement. At each step, the algorithm takes an action and receives a reward or punishment based on the outcome. Over time, the algorithm learns to take actions that maximize the reward.