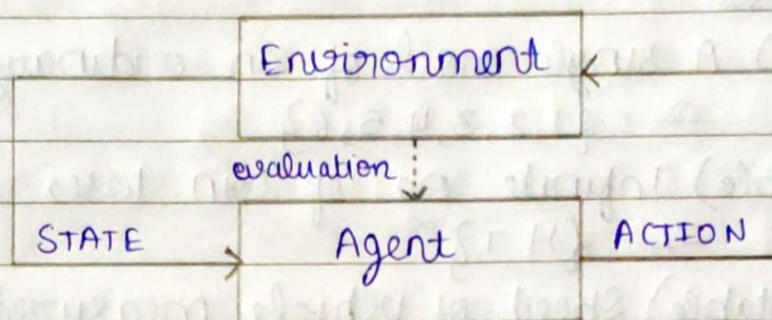


WEEK 1 : LECTURE 4

Reinforcement Learning

The type of learning where we learn to control the system through trial and error and the minimal feedback is called reinforcement learning

RL Framework



- Learn from close interaction
- Stochastic environment
- Noisy delayed scalar evaluation
- Learn a policy (Maximize a measure of long term performance)

Applications

- Game playing (Backgammon - world's best player)
- Autonomous agents (Robot Navigation)
- Adaptive control (Helicopter pilot)
- Combinatorial Optimization (VLSI placement)
- Intelligent Tutoring Systems