Reward Function -> rety = R(se, at, set4)

This formulation is called a Markon Decision Process

MDP: A method to select an action a given state s.

Then observe a' &' s' based on transition probs P.

* Most DQN's are flot CNN's + botton normalization

* DQN is the agent's reaming in the env.

Markov Decision Processes

Special stochastic time control process for decision making which assumes random probability E' a decision maker having complete control.

S: Set of states. At each time step, the state of the environment is an element ses.

A: Set of actions. At evan time step, agent chooses an action a & A to perform,

P(styl state): State transition model that describes how the envistate ananges when user performs an action a depending on current states

p (rtti I stiat): Reward model that describes the real valued reward value that the agent receives from the env other performing an action. (Depands on State & action)

Y: Discourt factor that controls importance of future rewards.

- In MDP, we search for a policy function that the agent or decision maker will choose in next state s.