## What is RL? -> Jeaning what to do in an evirument

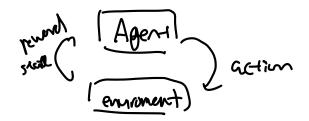
Explantion & Explantation

Explar: trying out new things

Exploration! does this you already bone will work well.

hav?

- We WANT to Maxima Reward



- 1) star of some score Ser discret > + = 0,1,2,...
- 1 pick Lotin Acc
- 3 rever Seti, Reti
- 1 reprat

Stortes actions

#6

R CR revorks A MDP - marker decision process

- A (C) →



· transition probabilities

Re + Se < random variables - discret pallables distributives

p(s', r 1s,a): give than I'm out stall s, if I take action a, whore is the probably that I will end op IN S', IN revent of

b(8,8714,2).1 6 e(b, 2013 1) =0

> rea pls, = | sm) = probability of going from storce  $S \rightarrow S'$  takes attion 0.

transition probables = p(s'/s,a)

Discourse remards

rewards

One of the property of the form of the state of the state of the person.

Magne II [ Gre]

policies 4 value function

Ti : state - action

UTICO- IF [bel Se= S] - VTX 2 VTI
storle - Circle function

971 (Spa) = EE[Get | Se=S, Ac=9] QTH (Spa) = 971 (Spa)

1 action plus function

VT (s) = It to lee so

2 7(als) 2 p(s,rls, a) [rt r.v+()')]

state-value-Bellman equation

Interenty

optime (moranne)

VTX ZVTI Ya ~