

Reinfoncement Leanning: |Steps:| Action (2) 3) newand (4) Then go to next state Def: is a ML technique that thoins SW to make decisions to achieve the most optimal nesults Ex: (Vaccum Cleanen) -> Croal: To clean the floor efficiently - Actions: move forward, tunn night/left, Stant/stop suction - newand: if picks up dint -> positive news bumping into wall -> regative newand # leanns from newand and penalties



Mankov Decision Process:

-> mallem mathematically formulate neinfoncement learning problem.

In matikov property: connect state completely characterises the state of the world.

-) defined by (S,A,R, P, T)

S -> set of possible states

Actions

R -> distribution of neward given

(state, action) pain

P -> transition probability. i.e: distributions oven next state given (state, action) Pain

or -> discount factor

Diajkstna, but & changetenistic: mon-deterministic

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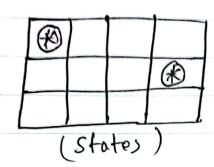
G as

Gest

e



## It maximines newands



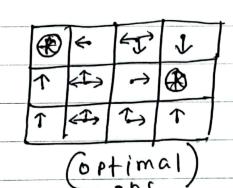
actions = night ->

Left 

up 1 down 1

objective: any cell to stan cell in for each transition, neward, r= -1

min actions



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