11111111111111 Date AI writ 4 8 Ø)PDDL: Planning Domain Defination Rang

→ Standard encoding lang for "Classical" planning tasks.

planning tasks.

planning tasks.

planning tasks.

Specified in PDOI Cure

Separated into & files

domain file prom file

predicutors & actions objects. Initial & goal state → Each state is represented as Conjuction of ground, function less cetom, one atom Eg: A+(+ruck 1, nelbone) ^ (A+(+ruck 2, sychney) her truck 1 is at Melbone and truck 2
is at sydney -, 1 state is Been revery state is defined using the prepositional state · performed. - Auten " , does not have variable une ralled it as grounded atom Eg: Desk lamp is togged on · Modelling wampus world in PDOL (1) Neulgages

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(Neelgagen)

State Space Search: Q J Hervistics - Starting from

Initial state to Goal state we check the least amt of distance to be travelled. GS - The least distance

is considered as the shortest distance - It reduces time complexity for son - may not give best / optimal solution. - It is used to guess the shortest to reach the GS

Q) STRIPS: . STandfords Research Institute Problem Solver

- is an automated planning technique that is used to find domain from the Initial state of domain

- With STRIPS we can describe the world (Initial, and Goal state)

→ To describe world, un use 2 categories states-Initial & goal state

Action Schima - Objects, Actions, preconclution &

Eg. Action, Buy(x) but it was included in Delis OPPRICONCLITION At (P), sells (P,X)

OF Effect Have (X)

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- + Any Event that occurs evelher a mind en a consious Individual
- Eg: feelings, decisions, dreamete
- -> Mary fells happy after doing well in her exam & she smiles
- feels happy mental went. Smiles - physical went.

addddddddaaaaa

## Mental Object:

(Neekyagen)

- Something that cannot be perceived By Senses.
- -> If we have knowledge about Certain object, how to simplement how to apply knownledge to that particular object

## a) Basic probability notation:

- due to uncertainity notation un use probability notation
- To handle uncertainity we use probability.

- Conditional probability  $P(A|B) = P(A \cap B) \quad \xi \quad P(B|A) = P(A \cap B)$  P(A)6>0  $P(a \wedge b) = P(a \mid b) P(b)$ - Inclusion - Exclusion principle: P(avb) = P(a) + P(b) - P(anb) OBaye's Rule: -> It is like a Conditional probability > Eg: a → b = Ff a occurs une don't know b mill occur or on what basis a will occur -> Baye's Rule is durined from product Rule. such that: P(anb)=P(alb)P(b) -O OR P(anb) = P(bla) P(a) -@ 1 (6) (a) = P(a|B) P(B) | Prior P(a) posterior likelihood Marginal (Neelgagan)



