Paga No.

Tutorial I Design of Intelligent Agent

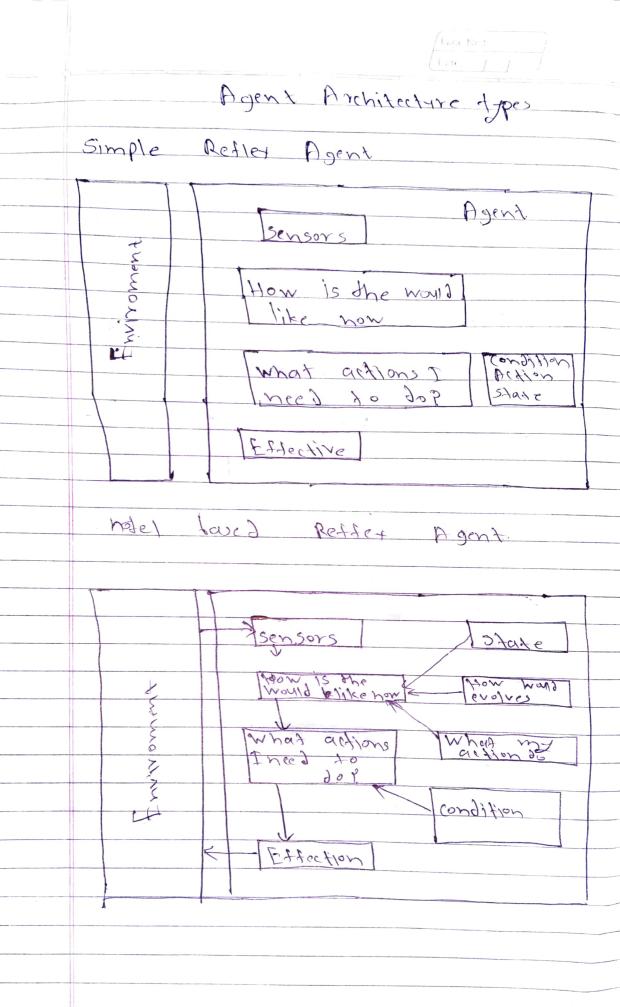
MAME: Devang P. Shinde

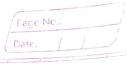
Class : B.E IT

ROIL 110: - 63

subject :- 25 LAB

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Tatorial J. Design of intelligent agent

A Agent audhorization by
studying definition or rational
Agent prent environment staste
environment pescription schurroment
types

Theory.

An Artificial Intelligent system

1s compound of an agent and its

environment. The agents alt in

their environment. An gragent is

another that can perceive

anything that can perceive its environment through senses and acts upon that environment through

An agent in particular can be

Human agent has sensory agent like eyes ease and other governt like affectors

Redictic agent: Replaces cameless and manages finders for the sesons

and rarious mortals and actuar

software agent: Has encoded bit as its presisions and action. Goal based Agent. sensors state tow would evolve Effection unity lased Agent How is the would and rubbens. It How rassing author the what actions I Effectives

Simple Reffex Agents choose activities only based on the concert percent only . They are trational only if a caused decision is made only or on the basis of current percent Agent environment for such

quents is fully oferval

trodel laved Reffet agents

use a model of the would

to choose their action they maintain

an internal state as a potetial intermation Hence the model means knowledge about how the thigs happens in the world that is represantation of understand aspects a convint state depending on percept Pintary adent gakes into account now its actions aftert one nor 19. Cloud based agents Choose their

action in order to achine gouls

your - lased approach is therible than

the netter agent since me knowled

suppressions as explicitly

modeled. Therefore allowing for modificable Unitilly based agents moose actions based on an atility or each state gouls are inadequite when there are contliticting goalsoff of which for only few can be achive d , yours have done uncerty of being achived and your need to weight like either a necess

sensors (PEAS). These are affectively reterned to a PEAS decrytions while analysing short environments The agent architet or needs to convide following properties. 1) Discrete or contineous. It othere are a limited numbers a distict cleanly detined state of the environment. The environment In discrete Dobervable on particulty diserrable.

It is possible to determine

me compete state of the chrisomer a each time point from one perpept. 2) static at dynamic. If me environment doest change while an agent acting , men it is 57071C-4) Deterministic on non-deterministic If the next state of the environment is comprexity determine by one count state and me environment is deterministic s) Episode of 1-equation In an episodic environment each episode a create consists of the agent percessing and then acting the grantity or its actions depends on such on ma episode Hself.

6. single agent on multiple agents. The chrisoment may contain Wingle agent as then agent Which may be of the same us diffrent leind as mat or These agents may be configuration on completing with each other 7-Accessible on maccible. It the agence sensorly apposstic can have access to me complete statu or The environment 9 Worleine search internet for all baret application in tollowing scenarios and identity who is ugent for mat application, fyrther list out PEAS descriptions 1 for agent environment in each one ruse finally day to classify took environem properties 1. Deep Blue hess playing computer brodiam. performance measure win/foseldran, safety 2 chess pieces safety or kins piece had more time you each Environment :- chers bond, hers pieces Actulars :- Dolestop saver cipu

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Sensors - these Board Tale environment properties - Discrete, typy observable istatic ideterministic 5. Frish ighe Wib combatice, brodram Cleares trom 1964 to 1966 at the tost artifial intelligence labrators by Jeseph performance hearve onderstanding ises maintaining corprersation Environen users program, keyboard juser text Actuators texts sectors ivser texts inputs Tout environment properties contineous, fully Observable of Static, determistic, 3) sopri Sophia is social humaid developed 14 mong kong based company static. performance maure 'understanding yer mainting conversation, facial expression responce time Environment Hymors, objects. Actuals : Arms , mouth, legs, speaker sensors: Eyes, mic, autio_sensors Tack Environment property: contineous , fully observal , Dynamic, Peterministic, segrancial, single Agent



Apple's Virtual assistant

performence more & measure onderstanding

Note fest and speech providing

lest results isummangin.

Environment user speech text

Octualous nobile screen speaker

Table Environment properties

continuos isual observable islatic

Dedonitic, Episode single agen

accessible

5. Automated Gerssoward solves

performance measure understanding

that, anglyzing und unitity edicate

Time to solve

Environment: visillity letter (crossword

Actuators: Destatos screen programor

sensors: consumers bound

Task Environment properties

Discreeate ityly observal static

Determination isingle agent provide