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lecture O1 (Tua) Feb 21, 23 Chapter OL Antelligence Ability to solve the problem. i.e: - behaviour, learning ability, action, things imploment. Artificial Intelligence (AZ) AI based applications i-e: sensor of traffic lights deeblue 137 application Domain Knowledge => Domain Expert

National language processing (NLP) thything we do > Intelligence and Then mechanic can do => Artificial Antoligence (AI) Allen turny (father of Comp. Sci) 1956, the torms introduce artificial intelligence. Evolution () 4(i) many dimensions / fields in AT Datificial Intelligence in modren approach Runal norvick Book

Feb 28, 23 lecture 02 (Tues) Antificial Intelligence code: gmednkp the school of though 1- Thinking like a human How to samulate a human being Artificial Weal Wetwork 2 Acting like a homan -> Alan Turning Alan turing say the machine can be intelegent in the 1950% for the first time and He Proved experiment. 3. Thinking Rationally right way of trinking

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4- Alcting Rationally rational believer in Rational agent
Optimally achieved
goal 1 act accordinly explicit On Amplicit otility outcome 1 maxamize

Lecture 03 (Turn) Mar 07, 23 Agento anything shich topis Precious (percepts) from environment accordinly. PEAS - Performance measure () environment () Actuators Li sensors Modeling - Toxample :-Eight possible initial would state NCA (Vaccum cleaner Agent) tiral Stage Input B (Fill) (B, dist) (triboca, A) clean ation more B 13

This problem in Determinenté problem known as state space spot the all areas Known state space graph. Environment Discrete 40 Continear eg: phone spine eg: football driving Dengerous (non-Obserbal) environment Environment Multi agent single agent vs fully Obserbal is partially obserbal FO

Problantic Jo stochastic probabity vous Static in dynamic traffic at up to (Stand still) (changes) eg: chen gene eg: wad / football Trafic Controller Agent no deadlocks PEAS Performance : time of the agent is quickly. Envisorment: hoad, zebbha choming, vihicles Actuators: signal lights (control to light) Sensons: frequency identify

Vehicles unmand PERS of measure: save driving No Parformance traffic rule violation / accurate speed. Environment: 20ad, vehicle, zebbla cronsung. Actuators : staring, break Schnors: Distance, optical break sensor, infrared comera Agails deal in fixed environment Type Of Agents (Next dan)

Lecture 04 (Toes) Mar 21,23 Agent types. Simple reflex agent (Sences) Model Based reflex Goal based agent Utily Based agent learning based agent improvement complex environment update knowledge based Utility quantitat reflex action state space (Icnown)

Agent Model Based would a stater 4 Percept What is would like now What my action will do sibation Action taken noles Problem imp state Initial state Goal formation / test · Suplicit goal. · Explicit goal.

& xample reflex Simple goal Percept 3 Li Agent 0 What is the would like now path cost V. cordition 0 action role sules Utility 1 0 6 What to 415 9 change every action palore t The critic Problem solving

May 02, 23 Lecture OS (Toes) chapter no 07, 08, 1 09 Asistotle represent a Logical Agents logic logic (reasoning) -) formation language two types Semantica Syntax How you interpreted How you create the syntaxs syntaxes Meaning Of facts / rules Sentence the system build

KB (Knowledge bosed · Domain specific Knowledge Infrance form of logic first Propositional form of logic symbols ; P. Q. R. S 7 bi condiana <>, 1, 1, 7, left & right False The False

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1 (17. 78, 75, 79) 1+1+1+1+1 7(No) 1(2,1), B, 75, 7G (1,2), 7B, 7G, S J {(2,2), 7B, S, 7G, F > Risk 50% 50%. is a pit in $(3, 1) \ni P(3, 1)$ Mene P(0,0) V P(0,0) B(2,2) => P(2,2) V P(3,1) Su,2) => W(2,2) V W(1,3) P(3,1) 7 Pan Use 5 distinct symbols 25 = 32

Feb 23, 24 Lecture 02 (AI) Autificial Intelligence think / Lecar Ability opinion form decision or (udacity website like Heink human Act like human Act national antional - 1/2 ink

May 10,24 Lecture Autificial Intelligence of Agents Types Performance Simple Reflex Environment 8 Sensor change occure Reflex agent Wodel based maintain history + simple reflex Generative AI boused Goal based reflex agent

Hodren world tearning agent based agent means Seed dep #02 Types of Envisorment Environment Types