## UNIT-01

representation.

Couse outcomes: -y Student en le vable to -

COI - Understand brain building Black of A I8 KR

CO2 - Aprly propositional logie for KR

Co3 > Design Various medels bared on ML methods

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Co4 - Destin Versons models based on Deep learning methodology Apply

CO5 -> Understand Various hardwale & slw aspect wed for AI & its application.

Human are bertat understanding, reasoning &
Interpreting knowledge. Human knows things, which is
-knowledge & as per their knowledge they preform various
actions in the real world. But how mile do wall there
things comes under knowledge representation & reasoning.

Dottstodal -> man made.

Intellying -> Thinking power.

Hence AI means man made Himking
power!

So We can dyme AI as: It is a bronch of computer Science by Liehich we can intelligent machines which can behave like a human, think like humans of able to make duston," Allowing are the kind of knowledge which needs to be represented in AI System. · alyect Grant · Pysmone · Meta knowledge · facts. · knowledge Ban. knowledge is græsersness or Jonnillary gamed by Esperience of Jack, deta & Situatron. Jollowing as the types of knowledge in a I. Types of knowledge .-Gllowing are the Various typu of knowledge of 1 - Declarative knowledge 2 - prodeduce knowledge. 3 - meta knowleder 4 - Heurstic Knowledge 5 - Stouctural knowledge,

Relationship objects. Dedastrue abjects

knowledge Knowledge 1tubistic -knowledge Riles 12 procedure procedure meta knowledge showledge about knowledge The relation between knowledge 8 mtelligence: knowledge of real-vorlds plans a vital vole in mtelligence I some for creating WI. knowledge plays can -Importance ple in demonstrating Intelligence behanious In AI agent. An agent is only able to exceedely act on some input when he has some knowledge or expurence. about that mout. Lets suppose is you met some pesson who is speaking to is longuage which you don't thin how you aill able to act in that. The some things applies to the the intelligent behavior by the agents knowleds . I Sinsinge Deuston ) Actron /

Problem Solving, Seach Strategies -· General problem -· Seach & (onto) Strategry · Exhanstra Searches. · 1 termstic Search. · Constraint. Satrifiction problems. Knowledge representation : -y KR Usmy preducate lugie . - Legui as language, 1 ogic as representation, propositional logic, Statements, 0000 Vallables, Symbols, forth volue. KR USM, Rules: -> Typus y Rules -> declarative, proceduld, meta rules, procedulal vessus declarative finowlege & language. Reasoning Souton -> · Reasoning · Symbolic Reasoning · Statistical Resoning. Crame theory -> · Overview · Mini- Max Search procedure, · Grame playing with Mml-Max Grample.

Lealning theory Systom > Expert Systems. Inhoduction · What is Learning · knowledge Acquision · Rote Leaning knowledge Base · Learning for Example. Vorking memory · Explanation Band Leaning Infunce Engine. · clustering Expert System Analogy Explanation Reinfercement Application of Expect Syst. Neural Networks Fundamental Genetic Algasithm Introduction. · Introduction ' Model of Artifical Newson Encoding Herod Network Architecture operator y gonetra · Learning methods in neural Network AlgorAm · Smole Layer NN 3mtom. Basic brenetic Algros Hm. · Applications of Newood Networks. Al Comon Sense Natural language pressing · Introduction · Into, Hatural longuiste Form albation of Common · Syntactic processing physical world. · Semantic & prejmatic Common Sense Wowland wadowl3 chan