1)
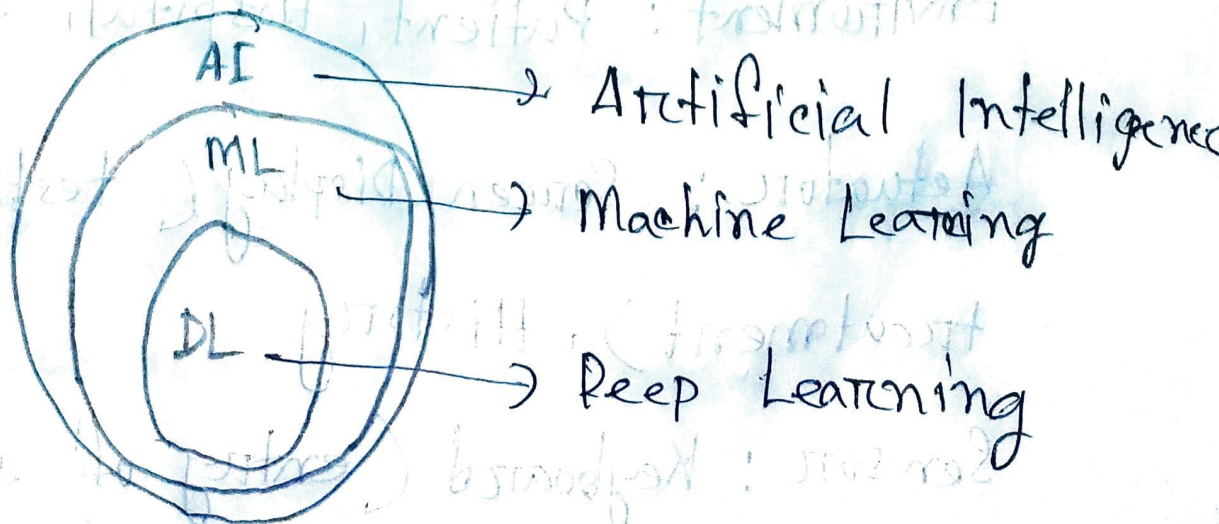
<u>Rational Agent</u> : A rational agent is one of the act agent which acts so as to achieve the best outcome or when there is uncertainty and act in a way to maximize the expected output.

<u>AI</u> : Artificial Intelligence is the concept of creating smart intelligent machines.

The process of imparting data, information and human intelligence to machine. The main goal is develop sefl reliant machine that can act and think like human.

Machine Learning: machine learning is a subset of AI that helps to build AI-Driven applications.

Deep Learning: Deep Learning is a subset of Machine learning that uses vast volumes of data and complex algorithms to train a model.

AI ⟶ Artificial Intelligence
ML ⟶ Machine Learning
DL ⟶ Deep Learning

③ PEAS is stand for :-

- Performance Measure

- Environment

- Actuators

- Sensor

For Developing Covid-19 Diagnosis System

Performance Measure : ~~Per~~ Accuracy, fast, minimize cost, Best Result.

Environment : Patient, Hospital, staff

Actuator : Screen Display (tests, digonoses, treatment), History

Sensor : Keyboard (entry of symptoms,

findings, patient Answers, test report data.

① In this case the agent sensor can ~~sense~~ access the complete state at each point of time. So, It's fully observable.

⑾ In this case agent can complety determine the nent state, Because the system of diagonosis is same. So, it is deterministic.

(III) In this case the agent's episodic. Don't need to require memory of past actions.

(IV) The agent is static. Because the way of Diagonas is universal.

(V) Finite number of state so, it is Discreate.

(VI) It is single agent. Because only one agent is involved on the environment.