In order to define the computational approach, these comes an "agent". I clea is to capture the most imp. aspect of the real problem facing a learning agent interacting over time with its environment to achieve its goal.

- -> Abstract manner.
- of its environment to some extent & must be able to take actions that affect the state
- The egent also must have a goal or goals relating to the state of the environment.

Most Pt problems in the initial days) work have been formali -zed as the optimal control problems in incompletelyknown Markot dece bion procosses (NDIs) MPPs are intended to include just three (3) aspects sensation, action & goal.

PL Vs supervised: - presence of Supervised Unsupervised

(SL) knowledgeble external

(UL)

Supervisor.

Obj. of SL: - extrapolation or generalization of response
so that it acts correctly in situations not present withe

training set.

Is in interactive problems, it is often impractical to obtain examples of derived behavior that are both correct & "representative of all the situations in which the agent has to out".

RLVS UL: - Pl may be a type of UL because UL does not rely on examples of correct behavior, PL is trying to max: a reward signal instead of trying to find hidden structures.

-> Explanation vs. Explaitation - trade off there two things do not wise in SL &U L, in the pureat form of there paradigms.

- It starts with a complete, interactive, goal seeling agent.

Elements of Fl:- (1) agent, (2) Environment - 4 mare

(3) Policy (4) Reward (5) Value function

(6) Model of the environments