Experiment No:-5 Aim: Reinforcement learning (a) Calculate Reward (b) Discounted Reward (c) Calculating optimal 11 d) Implementing a learning (e) setting up an Optimal Action. objective: To study and implement ca) breatculating Reward (c) calculating optimal of the contractions optimal optima (d) Implementing & learning ce) setting up an Optimal Action Theory :-Reinforcement learning (RU) is the science of decision making. It is about learning the aptimal behaviour in an environment to obtain maximum reward. in RL, the data is accumulated from machine learning systems that we a tolal- and error method. Data is not part of the input that we would find in supervised or unsupervised machine learning, brows + of . paragos trasmosoratais or an light and established that loan

Reinforcement learning clases adjorithms that from outcomes and decide which action action accounted Discounted take next. After each traction, the algorithm receives feedback that helps it determine return al where the choice it made was correct, neutral or importan incorrect. It is a good technique to use for This is automated systems that have to make typicall of small decisions without human quidance value determ relati Reinforcement learning is an autonomous, self-tensystem that essentially learne by hial and cala It performs actions with the aim of maxim a doing in order to achieve the but outcome call (a) € biagram: notion location as as painted (3) ti Agent correction Action morological sunda 21 ti paisson La Statemon Rewardingo or tanaminas an ai 9) in Re the data is accuminated them machine Environment! Dans painte busin is not point the input that we would (a) Calculating Reward: in Reinforcement learning, the reward is a numerical signal that indicates how well an agent is performing in its environment. The calculation of rewards can vary depending on the specific problem domain.

