

BSc in Information Technology Specializing Data Science Semester 02 Lab Exercise 07 IT3071 – Machine Learning and Optimization Methods 2023 Reinforcement Learning – Q Learning

- (01) Import the needful libraries to the environment
 - a. Numpy
 - b. Random Module
 - c. Gym
- (02) Create the Taxi-v3 environment
- (03)Find the number of states & actions
- (04) Set the values to the learning rate, the discount factor, and a fix value to overcoming the expiration and exploration (Fixing the q values after some duration)
- (05) Create the initial Q table with zeros.
- (06)Train the Q table with 100000 episodes
- (07)Test the goodness of the trained table