## **RL ASSIGNMENT 4 REPORT**

## Contributions-

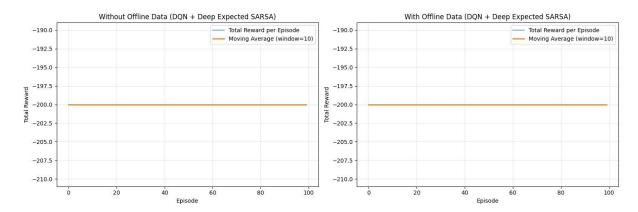
- 1. Stuti Garg SE22UCSE263- Section 4 step 1 and step 2; Section 7
- 2. Anya SE22UCSE033- Section 4 step 3; Section 6
- 3. Lakshmi SE22UCSE149 -Section 4 step 3; Section 6

Section 4 Step 1 and 2

SECTION 4 (STEP 2) Date: //
MOUNTAIN CAR
(Play Game)
(1) a → Action O → Accelerate to the left
S → Action 1 → Do not accelerate
d > Action 2 > Accelerate to the right.
(2) noop stands for 'no operation' and defines the default action when no key is pressed. It
maps to action I (no acceleration.)
(3) This callback function is used to track and display the total reward accumulated during an episode. It is called after each step to update the reward counter.
(4) We can slow down the game by modifying frames per second (fps) parameter in the plays function.  For example in line 31, we can change fps = 60  to  to  to  to  the game making
This can reduce the speed of the game, making it easier to play manually.

O SECTIONY (STEP 1)	Date: / / /
Management	77
(Guarana)	220012 1 -18
(Gymnasium Document)	10   2
1) There are 3 discrete actions:	nte e- P
0: Accelerate to the left	3
1: Done Accelerate	
2 : Accelerate to the right.	7
Larrendly green signal	
a of spring step somes dage swifely	a e-12 - N
(27 No, it is not possible to accele	
left and to right at the same	
action space is discrete, impli	
can choose only one action	
actions.	
501.09	27
(3) There are 2 observations:	2, 56000 500
(i) Position of the car	
(ii) velocity of the car.	23) =2
11010307	The second second
(4) There are 2 values in the obs	servation
space:	0 2 8
(i) Position ( [1.2, 0.6]	120
(ii) velocity e [-0.07, 0.07]	
	7100
F1.03	4. Ackim
11100	3

## Section 6



Both models maintain a constant reward of approximately -200 across all episodes