

HYPERPARAMETER TUNING

Case1:

1. Start = [0,4] , policy_algo = 'qlearning' :
https://wandb.ai/nayinisriharsh-iitm/CS6700_PROGRAMMING_ASSIGNMENT_1/sweeps/nc0miczw
2. Start = [0,4] , policy_algo = 'sarsa' :
https://wandb.ai/nayinisriharsh-iitm/CS6700_PROGRAMMING_ASSIGNMENT_1/sweeps/w6taq5jn
3. Start = [3,6] , policy_algo = 'qlearning' :
https://wandb.ai/nayinisriharsh-iitm/CS6700_PROGRAMMING_ASSIGNMENT_1/sweeps/zi7cae73
4. Start = [3,6] , policy_algo = 'sarsa' :
https://wandb.ai/nayinisriharsh-iitm/CS6700_PROGRAMMING_ASSIGNMENT_1/sweeps/jib2twoa
https://wandb.ai/nayinisriharsh-iitm/CS6700_PROGRAMMING_ASSIGNMENT_1/sweeps/l48hk1mn

Points:

Q-Learning is able to find solution to goal irrespective of parameters

Case2:

5. Start = [0,4] , policy_algo = 'qlearning' :
https://wandb.ai/nayinisriharsh-iitm/CS6700_PROGRAMMING_ASSIGNMENT_1/sweeps/54lcb5zu
6. Start = [0,4] , policy_algo = 'sarsa' :
https://wandb.ai/nayinisriharsh-iitm/CS6700_PROGRAMMING_ASSIGNMENT_1/sweeps/48ka5tpp
7. Start = [3,6] , policy_algo = 'qlearning' :
https://wandb.ai/nayinisriharsh-iitm/CS6700_PROGRAMMING_ASSIGNMENT_1/sweeps/ayvltohl
8. Start = [3,6] , policy_algo = 'sarsa' :
https://wandb.ai/nayinisriharsh-iitm/CS6700_PROGRAMMING_ASSIGNMENT_1/sweeps/wlcvmencl

Case3:

9. Start = [0,4] , policy_algo = 'qlearning' :
https://wandb.ai/nayinisriharsh-iitm/CS6700_PROGRAMMING_ASSIGNMENT_1/sweeps/hym7u60b
https://wandb.ai/nayinisriharsh-iitm/CS6700_PROGRAMMING_ASSIGNMENT_1/sweeps/eogk4s2u
10. Start = [0,4] , policy_algo = 'sarsa' :
https://wandb.ai/nayinisriharsh-iitm/CS6700_PROGRAMMING_ASSIGNMENT_1/sweeps/4e45wvzb
https://wandb.ai/nayinisriharsh-iitm/CS6700_PROGRAMMING_ASSIGNMENT_1/sweeps/t4ujh84c
11. Start = [3,6] , policy_algo = 'qlearning' :
https://wandb.ai/nayinisriharsh-iitm/CS6700_PROGRAMMING_ASSIGNMENT_1/sweeps/8bjf6emh
12. Start = [3,6] , policy_algo = 'sarsa' :
https://wandb.ai/nayinisriharsh-iitm/CS6700_PROGRAMMING_ASSIGNMENT_1/sweeps/p1of9o0q

Metric with Random state during testing :

Case 2:

13. Start = [0,4] , policy_algo = 'qlearning' :
https://wandb.ai/nayinisriharsh-iitm/CS6700_PROGRAMMING_ASSIGNMENT_1/sweeps/gmejo21f
14. Start = [0,4] , policy_algo = 'sarsa' :
https://wandb.ai/nayinisriharsh-iitm/CS6700_PROGRAMMING_ASSIGNMENT_1/sweeps/563h05ii
15. Start = [3,6] , policy_algo = 'qlearning' :
https://wandb.ai/nayinisriharsh-iitm/CS6700_PROGRAMMING_ASSIGNMENT_1/sweeps/
16. Start = [3,6] , policy_algo = 'sarsa' :
https://wandb.ai/nayinisriharsh-iitm/CS6700_PROGRAMMING_ASSIGNMENT_1/sweeps/xp7tb689

Case 3:

17. Start = [0,4] , policy_algo = 'qlearning' :
https://wandb.ai/nayinisriharsh-iitm/CS6700_PROGRAMMING_ASSIGNMENT_1/sweeps/snhmep7i
18. Start = [0,4] , policy_algo = 'sarsa' :
https://wandb.ai/nayinisriharsh-iitm/CS6700_PROGRAMMING_ASSIGNMENT_1/sweeps/ldkd9tfw
19. Start = [3,6] , policy_algo = 'qlearning' :
https://wandb.ai/nayinisriharsh-iitm/CS6700_PROGRAMMING_ASSIGNMENT_1/sweeps/qwr8ilfv
20. Start = [3,6] , policy_algo = 'sarsa' :
https://wandb.ai/nayinisriharsh-iitm/CS6700_PROGRAMMING_ASSIGNMENT_1/sweeps/b40qafmz