

ECE 239AS.3, Spring 2024

Neural Networks & Deep Learning 2

UCLA

Project 4: RL

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Due Friday, June 7th 2024, by 11:59pm to Gradescope.

~~100~~ 50 points total + 5 bonus.

1. (50) **Car Racing Game: DQN** Complete **RL.ipynb** and along the way complete **DQN.py**, **model.py**, **replay_buffer.py**, and **env_wrapper.py**.
2. ~~(50 points + 5 points bonus)~~ (5 bonus points) **Double Inverted Pendulum: DDPG** Complete **model.py**, **DDPG.py** and **rl_part2.ipynb**.

Please make sure to read the instructions in both the readme and in all files carefully before writing your code. Grading for each part is indicated in the corresponding notebook. Print out all files mentioned here and submit as one pdf on gradescope.