

Project Machine Learning

Task 3

Feedback Group09

1 General

Your report was well written and contained all the information necessary to answer the questions of task 2. You submitted all the necessary code for the tabular and deep Reinforcement Learning implementations and presented your results in the report.

Your group passed Task 3, and the following suggestions and issues are solely feedback for you.

1.1 Suggestions

- your visualization of the gridworld policies is quite nice but appears a bit overloaded as it is hard to make out the interesting part maybe a heatmap could improve that

1.2 Issues

- your SARSA and Q-Learning implementations for part 1 seems to have a bug, you only update the table if your chosen action changes the state in a good way which causes inconsistencies in learning as the step in the world is still taken but no update of the table for this step is performed
- your deep Q-Learning already seems to use experience replay, as you do not update the model at each step but save the actions of 501 steps and update the network on all the experienced gain during these steps. So trying to update the network twice seems to throw the errors you mention.