SARSA and QLeaning

测验, 4 个问题

1
point

1。

What is true about Bellman equations?

- [ ] Q-learning is based on Bellman expectation equation.
- [x] SARSA is based on Bellman expectation equation.
- [ ] SARSA is based on Bellman optimality equation.
- [x] Q-learning is based on Bellman optimality equation.

1
point

2。

Let's analyze the definition of goals for the considered methods - SARSA, Expected SARSA, Q-learning.

- [x] All methods except SARSA use R , S' , A , S, where S' is the next state.
- [ ] There are several sources of stochasticity in Q-learning targets.
- [ ] There are several sources of stochasticity in Expected SARSA targets.
- [ ] All methods except Expected SARSA use R , S' , A , S, where S' is the next state.
- [ ] All methods except Q-learning use R , S' , A , S, where S' is the next state.
- [x] There are several sources of stochasticity in SARSA targets.

1
point

3。

When SARSA is better than Expected SARSA?

- [ ] In the cases when the state space is too large, so that we cannot integrate approximations over huge state space.
- [x] In the cases when it is impossible to compute an explicit expectation over policy stochasticity.
- [ ] In the cases when the gamma is too large.
- [ ] In the cases when we have a lot of parameters W.
- [x] In the cases when the action space is too large, so that we cannot integrate approximations over huge action space.
- [ ] In the cases when we have only a few parameters W.

1 point

4。

Select the correct statements about approximate (based on function approximation) SARSA and Q-learning.

- [ ] Both algorithms use the classification loss (e.g. accuracy, log loss, etc.)
- [x] Both algorithms can use same neural network architectures for approximating the q-function.
- [ ] Q-learning uses semi-gradient udpates. SARSA uses SGD.
- [x] The algorithms differ only in a form of update (more precisely, only in the target expression).
- [x] Both algorithms use the regression loss (e.g. MSE, MAE, etc.)

- [x] 我（**伟臣 沈**）了解提交不是我自己完成的作业 将永远不会通过此课程或导致我的 Coursera 帐号被关闭。

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