SARSA and QLeaning

Quiz, 4 questions

1 point							
1.							
What is true about Bellman equations?							
	SARSA is based on Bellman expectation equation.						
	Q-learning is based on Bellman expectation equation.						
	Q-learning is based on Bellman optimality equation.						
	SARSA is based on Bellman optimality equation.						
1 point							
2. Let's ar	nalyze the definition of goals for the considered methods - SARSA, Expected SARSA, Q-learning.						
	All methods except Q-learning use R , S' , A , S, where S' is the next state.						
	There are several sources of stochasticity in SARSA targets.						
	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.						
	All methods except Expected SARSA use R , S' , A , S, where S' is the next state.						
	There are several sources of stochasticity in Expected SARSA targets.						
1 point							

3.

When SARSA is better than Expected SARSA?

In the cases when we have a lot of parameters W. SARSA and QLeaning							
Quiz, 4 questnothse cases when we have only a few parameters W.							
	In the cases when the gamma is too large.						
	In the cases when the state space is too large, so that we cannot integrate approximations over huge state space.						
	In the cases when it is impossible to compute an explicit expectation over policy stochasticity.						
	In the cases when the action space is too large, so that we cannot integrate approximations over huge action space.						
1 point							
4.							
Select th	ne correct statements about approximate (based on function approximation) SARSA and Q-learning.						
	Both algorithms can use same neural network architectures for approximating the \emph{q} -function.						
	Both algorithms use the classification loss (e.g. accuracy, log loss, etc.)						
	Q-learning uses semi-gradient udpates. SARSA uses SGD.						
	The algorithms differ only in a form of update (more precisely, only in the target expression).						
	Both algorithms use the regression loss (e.g. MSE, MAE, etc.)						
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