Reinforcement Learning Project: Meeting log

Date	Discussion Points	Action Points
22.02.2022	• Initial discussion about the assignment	• Get familiar with the code from the labs • Understand the chess environment and the assignment jupyter notebook • Implementation of the epsilon greedy policy

14.02.2022	• Clear up questions about the assignment
	• Divide upcoming tasks
		• Until end of week:
		  ○ Implementation of SARSA
		  ○ Implementation of Q-Learning
		  ○ Implementation of Experience Replay
		• Derive the backpropagation rule for our neural network

16.02.2022	• Derive backpropagration for sigmoid and ReLu activation.	• Working session to implement the backpropagation algorithm (Q-Learning and SARSA were successfully implemented) (Adriana, Iuliia)
17.02.2022	• Code review of the implementation of SARSA and Q-Learning all together	• Implement Experience Replay (Adriana and Iuliia) • Implementation of the optimization algorithm (Adriana and Iuliia)
18.03.2022	• Code review of the Experience Replay technique • Decision on a parameter tuning scheme (grid-search) • Decision on the adapted reward scheme	• Implement grid-search for parameters (Siddhant) • Implement different reward schemes • Complete report (all together)