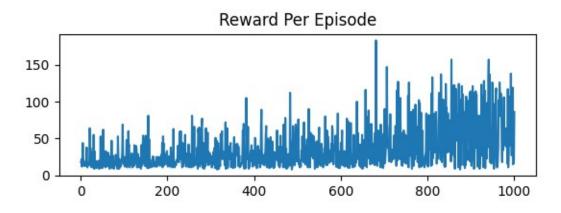
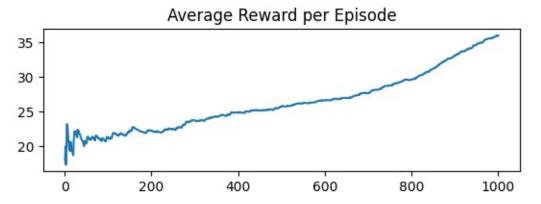
Zachary Pearson
D439H842
CS898
Deep Learning
Assignment 5
q-learning

Architecture: I used a q-table implemented as a dictionary. I rounded every input to a single decimal place and focused only on the pole position and velocity.





Random q-table values:

Before Training

state: (0.0 0.9) action: [0. 0.] state: (0.8 0.1) action: [0. 0.] state: (0.6 0.3) action: [0. 0.] state: (0.4 0.8) action: [0. 0.] state: (0.9 0.0) action: [0. 0.]

After Training state: (-0.0, 0.3) action: [0.50203905 1.94572771] state: (-0.0, 0.0) action: [2.05550284 0.66692894] state: (-0.0, 0.6) action: [0.13373252 0.44655833]

state: (-0.0, 0.9) action: [0.08439671 0.04054707]