

Balancing Cart Pole in Open AI Gym using Deep Reinforcement Learning

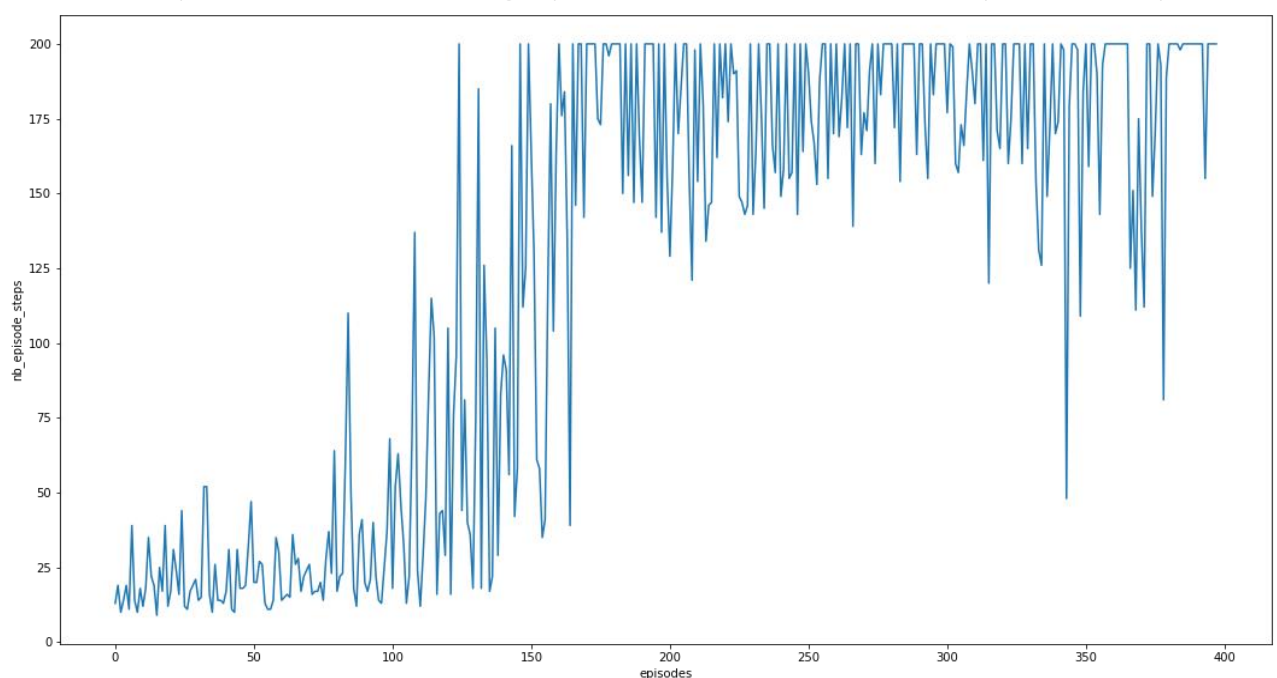
Python Implementation of Balancing Cart Pole using Keras, DQN and Open AI Gym is available on [GitHub](#)

1. Screen print of the Keras summary of DQN Model

```
#Feed Forward Neural Network Architecture Summary

Model: "sequential"
-----
Layer (type)                 Output Shape              Param #
-----
flatten (Flatten)            (None, 4)                  0
dense (Dense)                 (None, 24)                 120
dense_1 (Dense)              (None, 24)                 600
dense_2 (Dense)              (None, 2)                  50
-----
Total params: 770
Trainable params: 770
Non-trainable params: 0
```

2. Screen print of the Training episodes and Number of Episode steps



3. Screen print of the Testing conducted for 20 episodes.

```
Testing for 20 episodes ...
Episode 1: reward: 200.000, steps: 200
Episode 2: reward: 200.000, steps: 200
Episode 3: reward: 200.000, steps: 200
Episode 4: reward: 200.000, steps: 200
Episode 5: reward: 200.000, steps: 200
Episode 6: reward: 200.000, steps: 200
Episode 7: reward: 200.000, steps: 200
Episode 8: reward: 200.000, steps: 200
Episode 9: reward: 200.000, steps: 200
Episode 10: reward: 200.000, steps: 200
Episode 11: reward: 200.000, steps: 200
Episode 12: reward: 200.000, steps: 200
Episode 13: reward: 200.000, steps: 200
Episode 14: reward: 200.000, steps: 200
Episode 15: reward: 200.000, steps: 200
Episode 16: reward: 200.000, steps: 200
Episode 17: reward: 200.000, steps: 200
Episode 18: reward: 200.000, steps: 200
Episode 19: reward: 200.000, steps: 200
Episode 20: reward: 200.000, steps: 200
<keras.callbacks.History at 0x7f9e648146d0>
```