# Artificial Intelligence – Assignment 2 - CartPole – Report

## Deep Q-Learning Network Architecture

During training, I tested many different model architectures with some minor and major changes with them. Throughout all the models tested I used a fully connect network, however, I changed the number of trainable parameters by adding more hidden layers and increasing the output size of those layers. With more trainable parameters I found that the model took more episodes to train to an average score of above 200, however, given time it’s average score increased higher than those models testing with fewer trainable parameters.

For the input layer and the two hidden layers of the final network use Rectified Linear Unit (ReLU) as an activation function

