UDACITY

PROJECT

Your first neural network

A part of the Deep Learning Nanodegree Program

PROJECT REVIEW

CODE REVIEW

NOTES

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Meets Specifications

Great work! The network is programmed perfectly, and the hyperparameters perform pretty well.

I hope you enjoyed the project. Good luck in the future; keep up the great work!

Code Functionality

All the code in the notebook runs in Python 3 without failing, and all unit tests pass.

Code runs and passes unit tests

The sigmoid activation function is implemented correctly

Great

Forward Pass

The forward pass is correctly implemented for the network's training.

The run method correctly produces the desired regression output for the neural network.

The input to the output layer is implemented correctly in both the train and run methods.

The output of the network is implemented correctly in both the train and run methods.

Perfect on the forward pass ⭐

Backward Pass

The network correctly implements the backward pass for each batch, correctly updating the weight change.

Updates to both the input-to-hidden and hidden-to-output weights are implemented correctly.

Perfect! Great work 💯

Hyperparameters

The number of epochs is chosen such the network is trained well enough to accurately make predictions but is not overfitting to the training data.

Great. There is no sign of overfitting and the network reaches a fairly accurate solution. You can actually decrease the error even more, below 0.2 validation error if you want a challenge. Hint: with more epochs and a higher learning rate, there is another drop in validation loss

The number of hidden units is chosen such that the network is able to accurately predict the number of bike riders, is able to generalize, and is not overfitting.

Nice. A common recommendation is halfway between the number of input and output units, and work down from there. Your value works well here

The learning rate is chosen such that the network successfully converges, but is still time efficient.

Great. The network converges to an accurate solution quickly

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