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 job on implementing a successful neural network! As we can see, the model overestimates bike ridership in December because it hasn't had sufficient holiday season training examples. The predictions generally are quite accurate, though!

Code Functionality

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

Correct!

The sigmoid activation function is implemented correctly

Correct!

Forward Pass

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

Correct!

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

Correct!

Backward Pass

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

Correct!

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

Correct!

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.

Correct!

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.

Correct!

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

Correct!

The number of output nodes is properly selected to solve the desired problem.

Correct!

The training loss is below 0.09 and the validation loss is below 0.18.

Correct!

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