

< Return to Classroom

Predicting Bike-Sharing Patterns

	REVIEW
	CODE REVIEW
	HISTORY
Requires	Changes
2 specifi	ations require changes
	nent and a wonderful job! Awesome work! Just a bit of tuning and you will have an awesome model. mission! Your code runs really well! 👋
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A wonderful so Just a bit of tu Once you tune the year. Try to is really imported the All the code Correct!	mission! Your code runs really well!

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!
Try to have the number of hidden nodes at least 8.
The learning rate is chosen such that the network successfully converges, but is still time efficient.
Not all of the tests passed.

Test Failure Feedback

Please remember there is a trade-off between LR and the Iterations. If you choose smaller LR you will need more iterations to get the model converge and the other way around. Our job is to find the most efficient combination where the training process is time efficient and at the same time is adequately accurate.

Your learning rate seems to be a bit low to start with, try choosing a learning rate that gets the ratio of learning rate/the number of records(128) to be around 0.01, try out values such as [0.7,0.8,0.9]. A good learning rate is key to making the gradient descent converge in reasonable amount of time. Choosing a low learning rate will mean that the weight updates will be slower and hence the model will take longer to converge, choosing a high learning rate will over shoot the gradient as it takes bigger steps and probably never converge to minima. So it is crucial to tune the learning rate.

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.

You need to make sure to follow the suggestions and tune your model to get training loss below 0.09 and validation loss below 0.18 to pass the rubric.

☑ RESUBMIT

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