Programming Assignment: Tensorflow

Passed and verified · 100/100 points

Deadline Pass this assignment by April 1, 11:59 PM PDT

Instructions

My submission

Discussions

Assignment: Tensorflow

Incorrect minibatch count computation in tensorflow assignment?

Muthu Kumaran Lekshmanan Assignment: Tensorflow · 2 days ago

I notice that in the final model function there is the below code where the number of minibatches is computed,

"num_minibatches = int(m / minibatch_size) # number of minibatches of size minibatch_size in the train set"

This does not take into account the offset when the training set/batch size is not an exact multiple of the minibatch size (in this case m is 1080 and minibatch size is 32 which will entail an additional last mini batch of 24 examples)

Won't this affect the epoch cost values since we use the above to take the average of the mini batch costs in each epoch? or am I missing something basic here

Also can't the above computation be moved out of the loop to be just above the epoch loop since it doesn't change with the loop and is repeatedly computed?

Any one?

Thanks

Muthu

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Ricardo Cruz Mentor · 2 hours ago

Hi Muthu,

That was a very good catch! Good eye!

People usually don't care about such things, it won't make much of a difference. Some people don't even bother dividing by minibatch_size at all. It's a constant.

Don't submit with your change. I don't think the code analyzer will like it. But feel free to make your change afterwards. I agree that it is more mathematically correct, yes.

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Muthu Kumaran Lekshmanan · 2 minutes ago · Edited

Thanks Ricardo!. I submitted as you mentioned and completed it.

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