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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

KH ## in Tensorflow, why bother with the extra naming steps?   ⌄

Kevin Huang Assignment: Tensorflow · 18 days ago

Hi,

I am just wondering why we need to the extra steps in creating and naming constants when we can use the values fed into the functions directly?

For example, for the one_hot_matrix function, why do we need to create a constant C? I tried without this step and in the tf.one_hot function call, I directly refer to the "letter" C since it's fed into one_hot_matrix and it works.

Am I missing something?

Thanks.

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SC   Sebastian Rodriguez Colina · 9 days ago

It turns out it is actually more clear to name the variables, because when you import a trained model then it is easier to access all variables by the name.

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⌄

Ricardo Cruz Mentor · 18 days ago

Hi Kevin,

Some TensorFlow functions convert automatically native or numpy types to the tf.constant equivalent.

Not all TensorFlow functions support this. It's a convenience. It says in the documentation of each function if it supports such a thing.

Feel free to use that when you can. But this is an introductory course. The idea is to avoid such automatisms, because otherwise people lose sight of what's going on.

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⌄

Ricardo Cruz Mentor · 18 days ago

To clarify, some TensorFlow functions do something like this:

```
1
2
3
4
5
6
```

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KH　Kevin Huang · 18 days ago　　　　　　　　ⱽ

Hi Ricardo,

Thanks for the explanation. It caused me some confusion because the exact same name is for both the input variable and also the "key" for functions, e.g. you can have logits=logits, labels=labels in the input of tt.nn.sigmoid...

I changed the input values to a different name to make sure I understood what was going on

def cost(logits2, labels2):

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```
def one_hot_encoding(labels, C):
  if isinstance(C, np.array):
    C = tf.constant(C)
  ...
  ...
  ...
```

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