Graded Quiz • 30 min

Congratulations! You passed!

received 100%

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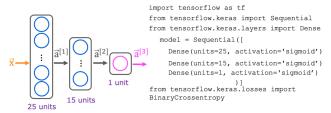
To pass 80% or higher

Go to next item

1.

1/1 point

Train a Neural Network in TensorFlow



model.fit(X,Y,epochs=100)

Here is some code that you saw in the lecture:

model.compile(loss=BinaryCrossentropy())

For which type of task would you use the binary cross entropy loss function?

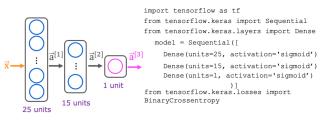
- O BinaryCrossentropy() should not be used for any task.
- oregression tasks (tasks that predict a number)
- binary classification (classification with exactly 2 classes)
- A classification task that has 3 or more classes (categories)

Yes! Binary cross entropy, which we've also referred to as logistic loss, is used for classifying between two classes (two categories).

2.

1/1 point

Train a Neural Network in TensorFlow



model.fit(X,Y,epochs=100)

Here is code that you saw in the lecture:

model = Sequential([

Dense(units=25, activation='sigmoid'),

Dense(units=15, activation='sigmoid'),

Dense(units=1, activation='sigmoid')

1)

model.compile(loss=BinaryCrossentropy())

model.fit(X,y,epochs=100)

Which line of code updates the network parameters in order to reduce the cost?

- $\begin{tabular}{ll} \hline \end{tabular} \begin{tabular}{ll} None of the above -- this code does not update the network parameters. \end{tabular}$
- model.fit(X,y,epochs=100)
- $\begin{tabular}{ll} \hline Omega & model.compile(loss=BinaryCrossentropy()) \\ \hline \end{array}$
- model = Sequential([...])

② Correct
Yes! The third step of model training is to train the model on data in order to minimize the loss (and the cost)