Congratulations! You passed!

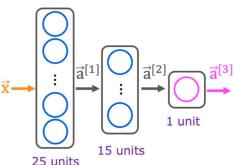
Grade received 100% Latest Submission Grade 100% To pass 80% or higher

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?

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

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

```
\vec{x}
\vdots
\vec{a}^{[1]}
\vdots
\vec{a}^{[2]}
1 \text{ unit}
15 \text{ units}
```

```
import tensorflow as tf
from tensorflow.keras import Sequential
from tensorflow.keras.layers import Dense
  model = Sequential([
    Dense(units=25, activation='sigmoid')
    Dense(units=15, activation='sigmoid')
    Dense(units=1, activation='sigmoid')
    from tensorflow.keras.losses import
BinaryCrossentropy
```

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=Binary Crossentropy ())
model.fit(X,y,epochs=100)
Which line of code updates the network parameters in order to reduce the cost?
O None of the above this code does not update the network parameters.
model.fit(X,y,epochs=100)
<pre>model = Sequential([])</pre>
model.compile(loss=BinaryCrossentropy())
Correct Yes! The third step of model training is to train the model on data in order to minimize the loss (and the cost)