



## Practice quiz: Additional Neural Network Concepts

Graded Quiz • 30 min

Due Feb 5, 11:59 PM EET

Item Navigation

Congratulations! You passed!

Grade received 100%

## Practice quiz: Additional Neural Network Concepts

To pass 80% or higher

Quiz • 30 min

Go to next item

Submit your assignment

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Try again

1.

## MNIST Adam

1 / 1 point

Ren model

```
model = Sequential([
    tf.keras.layers.Dense(units=25, activation='sigmoid')
    tf.keras.layers.Dense(units=15, activation='sigmoid')
    tf.keras.layers.Dense(units=10, activation='linear')
])
```

Re

compile

$$\alpha = 10^{-3} = 0.001$$

To Pass

```
model.compile(optimizer=tf.keras.optimizers.Adam(learning_rate=1e-3),
              loss=tf.keras.losses.SparseCategoricalCrossentropy(from_logits=True))
```

Your g fit

100%

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

View Feedback

We keep your highest score.

The Adam optimizer is the recommended optimizer for finding the optimal parameters of the model. How do you use the Adam optimizer in TensorFlow?



Like

The Adam optimizer works only with Softmax outputs. So if a neural network has a Softmax output layer, TensorFlow will automatically pick the Adam optimizer.

Dislike

Report an issue

☐ The call to model.compile() uses the Adam optimizer by default

☒ When calling model.compile, set  
optimizer=tf.keras.optimizers.Adam(learning\_rate=1e-3).
