Congratulations! You passed!

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Go to next item

1. For the the following code: 1 / 1 point

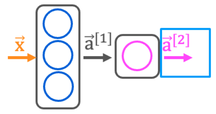
```
model = Sequential([
Dense(units=25, activation="sigmoid"),
Dense(units=15, activation="sigmoid"),
Dense(units=10, activation="sigmoid"),
Dense(units=1, activation="sigmoid")])
```

This code will define a neural network with how many layers?

- (•) 4
- ( ) 5
- ( ) 3
- ( ) 25

Correct
Yes! Each call to the "Dense" function defines a layer of the neural network.

2. 1 / 1 point



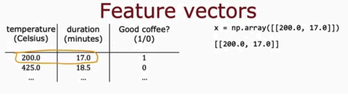

```
x = np.array([[200.0, 17.0]])
layer_1 = Dense(units=3, activation='sigmoid')
a1 = layer_1(x)


layer_2 = Dense(units=1, activation='sigmoid')
a2 = layer_2(a1)
```

How do you define the second layer of a neural network that has 4 neurons and a sigmoid activation?

- ( ) Dense(units=4)
- ( ) Dense(units=[4], activation=['sigmoid'])
- (•) Dense(units=4, activation='sigmoid')
- ( ) Dense(layer=2, units=4, activation = 'sigmoid')

Correct
Yes! This will have 4 neurons and a sigmoid activation.

3. 1 / 1 point



If the input features are temperature (in Celsius) and duration (in minutes), how do you write the code for the first feature vector x shown above?

- ( ) x = np.array([[200.0 + 17.0]])
- ( ) x = np.array([['200.0', '17.0']])
- (•) x = np.array([[200.0, 17.0]])
- ( ) x = np.array([[200.0],[17.0]])

Correct
Yes! A row contains all the features of a training example. Each column is a feature.