Congratulations! You passed!

Grade received 84.38% To pass 80% or higher

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1.	Which of the following are correct about the Extract, Transform, Load (ETL) procedure?	1/1 point
	 Load phase involves loading the a pre-trained model into the workspace ✓ Transform phase involves data normalization and scaling ✓ Correct Correct! Transform is the process of converting the extracted data from its previous form into the form it needs to be in so that it can be used in our case for training. 	
	 □ Extract phase would involve splitting the data into training and test sets ☑ Extract phase involves downloading a zip file from any external source containing the data ☑ Correct Correct! Extract in general is the process of reading data from multiple sources/ a database 	
2.	What does the following code block achieve?	0 / 1 point
	1 tfds.load(name="mnist", split="train") Splits the downloaded mnist data into train and test sets Loads mnist labels and assign them to any training dataset	
	 Extracts the mnist training dataset from a zip file Downloads and extracts training records from the mnist dataset Incorrect This code pulls the whole dataset, not just labels. 	
3.	Can you explore 10 records from the dataset by loading them into an iterator like this? 1 iterator = dataset.take(10)	1/1 point
	No● Yes	

You didn't select all the correct answers

https://www.coursera.org/learn/data-pipelines-tensorflow/quiz/xiQ9k/week-1-quiz/view-attempt

7. The fashion MNIST is a relatively simple example of a dataste used in computer vision modelling tasks used with or without TFDS. If you load the data using TensorFlow Keras datasets in TensorFlow 2.0 and above, what would the code look like?

1/1 point

```
data = tf.keras.dataset.fashion_mnist
(training_images,training_labels),(test_images,test_labels) = data.load_data()
```

```
data = tfds.as_numpy(tfds.load('fashion_mnist',
    split =['train','test'],
    batch_size=-1,
    as_supervised=True))

(training_images,training_labels) , (test_images,test_labels) = data
```

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```
data = keras.dataset.fashion_mnist
(training_images,training_labels) , (test_images,test_labels) = data.load_data()
```

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```
data = tf.keras.as_numpy(fashion_mnist)
(training_images,training_labels) , (test_images,test_labels) = data.load_data()
```

Correct!

The new Keras API integrated as part of TensorFlow in 2.0+ version makes it a seamless integration to access Dataset and other classes.

8. Which of the following code blocks would successfully create "Horses and Humans" test batches of 10 by shuffling 100 data samples?

1/1 point

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```
data = tfds.load('horses_or_humans',split = 'test', as_supervised=True)

batches = data.shuffle(batch(100),10)
```

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```
data = tfds.load('horses_or_humans',split = 'test', as_supervised=False)

batches = data.shuffle(100).batch(10)
```

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https://www.coursera.org/learn/data-pipelines-tensorflow/quiz/xiQ9k/week-1-quiz/view-attempt



```
data = tfds.load('horses_or_humans',split = 'test', as_supervised=True)
batches = data.shuffle(100).batch(10)
```



```
data = tfds.load('horses_or_humans',split = 'train', as_supervised=True)
batches = data.shuffle(100).batch(10)
```

⊘ Correct

Correct!

You specify the split as "test" to fetch the test records and mention as_supervised="True" so that the returned tf.data.Dataset will have a 2-tuple structure (input, label) according to builder.info.supervised_keys. If False, the default, the returned tf.data.Dataset will have a dictionary with all the features and you will get an error when you call .shuffle() on it.