

✔ Congratulations! You passed!

Grade received 80% To pass 80% or higher

Go to next item

1. If you want to merge two splits 'train' and 'test' together using Splits API, how would you be able to do so?

1 / 1 point

- ☒ tfds.load('mnist', split = 'train + test')
- ☐ tfds.load('mnist', merge = 'train+test')
- ☐ tfds.load('mnist',split = np.concat('train+test'))
- ☐ tfds.load('mnist', split = pd.concat('train', 'test'))

✔ Correct
Correct!

Passing both train and test in the string is the proper way to get both the splits.

2. The MNISTv3 dataset supports the Splits API. The train split has 70000 records in it. If you just want to create a subsplit of the first 7000 records and want to use the python slicing notation instead of Splits API, what would be the answer?

1 / 1 point

- ☒ tfds.load('mnist:3.*', split='train[:7000]')
- ☐ tfds.load('mnist:3.*', split='train[7000:]')
- ☐ Read the entire train split, create a new dataset, iterate over the first 7000 of the 70000, and copy the records one-by-one to the new dataset.
- ☐ tfds.load('mnist:3.*', subsplit='train[:7000]')

✔ Correct
Correct!

train[:7000] technically takes records from 0 to 6999 index value.

3. If you want a subsplit of the first 10% of the MNISTv3 training records, what would the code look like using the Splits API?

1 / 1 point

- ☐ tfds.load('mnist:3.*', subsplit='train[:10%]')
- ☐ tfds.load('mnist:3.*', subsplit='train[10%:]')
- ☒ tfds.load('mnist:3.*', split='train[:10%]')
- ☐ tfds.load('mnist:3.*', split='train[10%:]')

✔ Correct
Correct!

'train[:10%]'in string format represents that we want the first 10% of the records from the train split.

4. How many validation splits will this code generate?

1 / 1 point


val_ds = tfds.load('mnist:3.*', split = ['train[{}%:{}]'.format(int(k/4),int((k+40)/4)) for k in range(0,400,40)])

- ☐ Will throw an Error
- ☐ 5
- ☒ 10
- ☐ 40

✔ Correct
Correct!

As k is incremented by 40, you get the values like (0,40), (40,80)... until the last one, (360:400).

Dividing each value by 4 as you have (k/4,(k+40)/4), it will get converted to [0%:10%],[10%:20%]...[90%:100%] which is 10 splits. Note that the indices should be integers so the *int()* function was used inside the list comprehension to do that conversion.

 **This should not be selected**
map method is not present in the keras.dataset class.