



LLM Course documentation

End-of-chapter quiz ▾



Pytorch



TensorFlow



Ask a question

## End-of-chapter quiz

Test what you learned in this chapter!

1. The emotion dataset contains Twitter messages labeled with emotions. Search for it in the Hub , and read the dataset card. Which of these is not one of its basic emotions?

- ☐ Joy
- ☐ Love
- ☒ Confusion

**Correct!** Correct! Confusion is not one of the six basic emotions.

- ☐ Surprise

You got all the answers!

2. Search for the ar\_sarcasm dataset in the Hub . Which task does it support?

- ☒ Sentiment classification

**Correct!** That's right! You can tell thanks to the tags.

- ☐ Machine translation
- ☐ Named entity recognition
- ☐ Question answering

You got all the answers!

3. How does the BERT model expect a pair of sentences to be processed?

- ☐ Tokens\_of\_sentence\_1 [SEP] Tokens\_of\_sentence\_2
- ☐ [CLS] Tokens\_of\_sentence\_1 Tokens\_of\_sentence\_2
- ☒ [CLS] Tokens\_of\_sentence\_1 [SEP] Tokens\_of\_sentence\_2 [SEP]

**Correct!** That's correct!

- ☐ [CLS] Tokens\_of\_sentence\_1 [SEP] Tokens\_of\_sentence\_2

Submit

**You got all the answers!**

#### 4. What are the benefits of the Dataset.map() method?

- ☒ The results of the function are cached, so it won't take any time if we re-execute the code.

**Correct!** That is indeed one of the neat benefits of this method! It's not the only one, though...

- ☒ It can apply multiprocessing to go faster than applying the function on each element of the dataset.

**Correct!** This is a neat feature of this method, but it's not the only one!

- ☒ It does not load the whole dataset into memory, saving the results as soon as one element is processed.

**Correct!** That's one advantage of this method. There are others, though!

Submit

**You got all the answers!**

#### 5. What does dynamic padding mean?

- ☐ It's when you pad the inputs for each batch to the maximum length in the whole dataset.
- ☒ It's when you pad your inputs when the batch is created, to the maximum length of the sentences inside that batch.

**Correct!** That's correct! The "dynamic" part comes from the fact that the size of each batch is determined at the time of creation, and all your batches might have different shapes as a result.

- ☐ It's when you pad your inputs so that each sentence has the same number of tokens as the previous one in the dataset.

Submit**You got all the answers!**

## 6. What is the purpose of a collate function?

- ☐ It ensures all the sequences in the dataset have the same length.
- ☒ It puts together all the samples in a batch.

**Correct! Correct!** You can pass the collate function as an argument of a `DataLoader`. We used the `DataCollatorWithPadding` function, which pads all items in a batch so they have the same length.

- ☐ It preprocesses the whole dataset.
- ☐ It truncates the sequences in the dataset.

Submit**You got all the answers!**

## 7. What happens when you instantiate one of the `AutoModelForXxx` classes with a pretrained language model (such as `bert-base-uncased`) that corresponds to a different task than the one for which it was trained?

- ☐ Nothing, but you get a warning.
- ☒ The head of the pretrained model is discarded and a new head suitable for the task is inserted instead.

**Correct! Correct.** For example, when we used `AutoModelForSequenceClassification` with `bert-base-uncased`, we got warnings when instantiating the model. The pretrained head is not used for the sequence classification task, so it's discarded and a new head is instantiated with random weights.

- ☐ The head of the pretrained model is discarded.
- ☐ Nothing, since the model can still be fine-tuned for the different task.

Submit**You got all the answers!**

## 8. What's the purpose of `TrainingArguments`?

- ☒ It contains all the hyperparameters used for training and evaluation with the `Trainer`.

**Correct! Correct!**

- ☐ It specifies the size of the model.
- ☐ It just contains the hyperparameters used for evaluation.
- ☐ It just contains the hyperparameters used for training.

Submit

You got all the answers!

### 9. Why should you use the 🧑🏻 Accelerate library?

- ☐ It provides access to faster models.
- ☐ It provides a high-level API so I don't have to implement my own training loop.
- ☒ It makes our training loops work on distributed strategies.

**Correct!** Correct! With 🧑🏻 Accelerate, your training loops will work for multiple GPUs and TPUs.

- ☐ It provides more optimization functions.

Submit

You got all the answers!

<> [Update](#) on GitHub

← Fine-tuning, Check!

✓ Complete Chapter