

ctx\_encoder-multiset-base)

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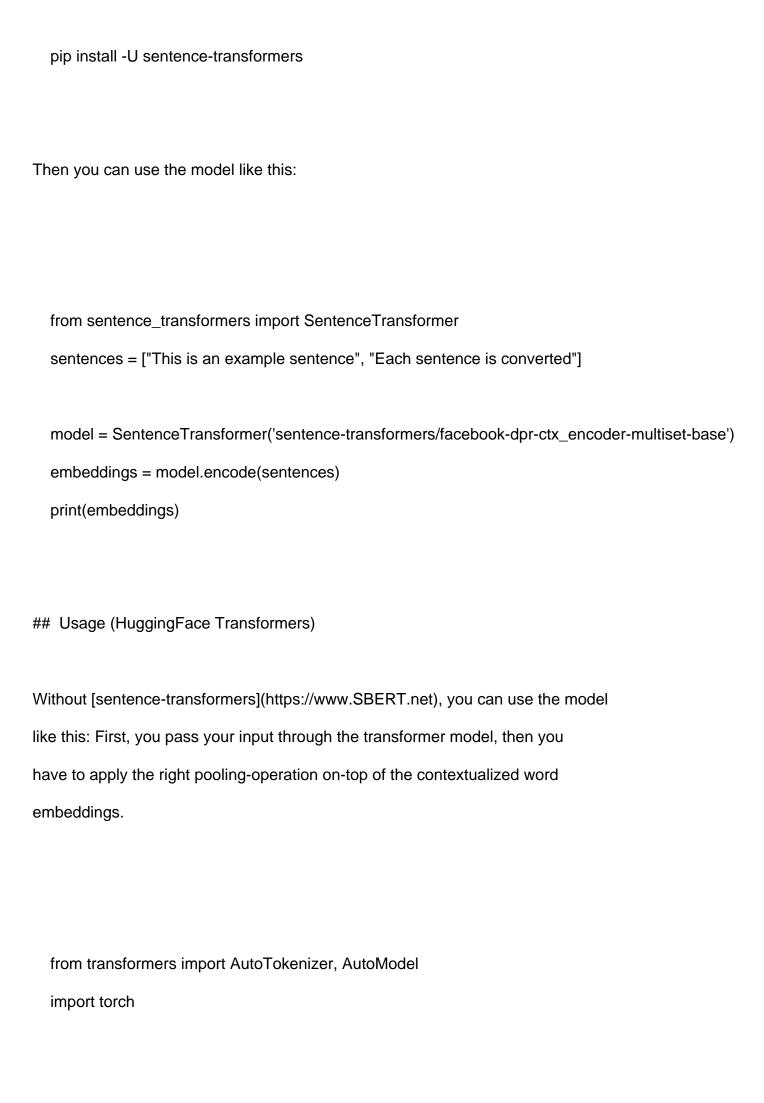
![](https://cdnavatars.huggingface.co/v1/production/uploads/1609621322398-5eff4688ff69163f6f59e66c.png)
Sentence Transformers 1.26k

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# sentence-transformers/facebook-dpr-ctx_encoder-multiset-base
This is a port of the [DPR Model](https://github.com/facebookresearch/DPR) to
[sentence-transformers](https://www.SBERT.net) model: It maps sentences &
paragraphs to a 768 dimensional dense vector space and can be used for tasks
like clustering or semantic search.
## Usage (Sentence-Transformers)
Using this model becomes easy when you have [sentence-
transformers](https://www.SBERT.net) installed:



```
def cls_pooling(model_output, attention_mask):
    return model_output[0][:,0]
  # Sentences we want sentence embeddings for
  sentences = ['This is an example sentence', 'Each sentence is converted']
  # Load model from HuggingFace Hub
                                                                     tokenizer
AutoTokenizer.from_pretrained('sentence-transformers/facebook-dpr-ctx_encoder-multiset-base')
                                                                       model
                                                                                               =
AutoModel.from_pretrained('sentence-transformers/facebook-dpr-ctx_encoder-multiset-base')
  # Tokenize sentences
  encoded_input = tokenizer(sentences, padding=True, truncation=True, return_tensors='pt')
  # Compute token embeddings
  with torch.no_grad():
     model_output = model(**encoded_input)
  # Perform pooling. In this case, max pooling.
  sentence_embeddings = cls_pooling(model_output, encoded_input['attention_mask'])
  print("Sentence embeddings:")
  print(sentence_embeddings)
```

## ## Evaluation Results

For an automated evaluation of this model, see the \_Sentence Embeddings

Benchmark\_:

[https://seb.sbert.net](https://seb.sbert.net?model\_name=sentencetransformers/facebook-dpr-ctx\_encoder-multiset-base)

## Full Model Architecture

## SentenceTransformer(

- (0): Transformer({'max\_seq\_length': 509, 'do\_lower\_case': False}) with Transformer model:

  BertModel
- (1): Pooling({'word\_embedding\_dimension': 768, 'pooling\_mode\_cls\_token': True, 'pooling\_mode\_mean\_tokens': False, 'pooling\_mode\_max\_tokens': False, 'pooling\_mode\_mean\_sqrt\_len\_tokens': False})

## Citing & Authors

Have a look at: [DPR Model](https://github.com/facebookresearch/DPR)

Downloads last month

System theme

Safetensors[](https://huggingface.co/docs/safetensors)
Model size
109M params
Tensor type
164
•
F32
Inference Providers [NEW ](https://huggingface.co/blog/inference-providers)
[ Sentence Similarity](/tasks/sentence-similarity "Learn more about sentence-similarity")
This model is not currently available via any of the supported third-party  Inference Providers, and the model is not deployed on the HF Inference API.

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