```
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```

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SentenceTransformerTrainerïf•

```
_sentence_transformers.trainer.SentenceTransformerTrainer(_model
_class
[SentenceTransformer](SentenceTransformer.html#sentence_transformers.SentenceTransformer
"sentence transformers.SentenceTransformer")
                                                        None
                                                                        None .
                                                                                    args
[SentenceTransformerTrainingArguments](training_args.html#sentence_transformers.training_args.
SentenceTransformerTrainingArguments
"sentence_transformers.training_args.SentenceTransformerTrainingArguments")
                                                                                        None_,
_train_dataset : Dataset | DatasetDict | IterableDataset | dict[str, Dataset] | None = None_,
eval_dataset : Dataset | DatasetDict | IterableDataset | dict[str, Dataset] | None = None , loss :
nn.Module
                                            dict[str,
                                                                   nn.Module]
Callable[[[SentenceTransformer](SentenceTransformer.html#sentence_transformers.SentenceTrans
former
                                                "sentence_transformers.SentenceTransformer")],
[torch.nn.Module](https://pytorch.org/docs/stable/generated/torch.nn.Module.html#torch.nn.Module
"\(in
                     PyTorch
                                              v2.5\)")]
                                                                                        dict[str,
Callable[[[SentenceTransformer](SentenceTransformer.html#sentence_transformers.SentenceTrans
former
                                                "sentence_transformers.SentenceTransformer")],
[torch.nn.Module](https://pytorch.org/docs/stable/generated/torch.nn.Module.html#torch.nn.Module
"\(in
          PvTorch
                        v2.5\)")]]
                                              None
                                                                 None .
                                                                              evaluator
[SentenceEvaluator](evaluation.html#sentence transformers.evaluation.SentenceEvaluator
"sentence transformers.evaluation.SentenceEvaluator")
list[[SentenceEvaluator](evaluation.html#sentence_transformers.evaluation.SentenceEvaluator
"sentence_transformers.evaluation.SentenceEvaluator")]                        | None = None_, _data_collator :
DataCollator | None = None_, _tokenizer : PreTrainedTokenizerBase | Callable | None = None_,
_model_init
                                                                                     Callable[[],
[SentenceTransformer](SentenceTransformer.html#sentence_transformers.SentenceTransformer
"sentence transformers.SentenceTransformer")]
                                                    None =
                                                                None,
                                                                          compute metrics
Callable[[EvalPrediction], dict] | None = None_, _callbacks : list[TrainerCallback] | None = None_,
```

_optimizers tuple[[torch.optim.Optimizer](https://pytorch.org/docs/stable/optim.html#torch.optim.Optimizer "\(in **PyTorch** v2.5\)"), [torch.optim.lr_scheduler.LambdaLR](https://pytorch.org/docs/stable/generated/torch.optim.lr_sched uler.LambdaLR.html#torch.optim.lr_scheduler.LambdaLR "\(in PyTorch v2.5\)")] = (None, None)_, _preprocess_logits_for_metrics Callable[[[torch.Tensor](https://pytorch.org/docs/stable/tensors.html#torch.Tensor "\(in PyTorch v2.5\)"), [torch.Tensor](https://pytorch.org/docs/stable/tensors.html#torch.Tensor "\(in PyTorch PyTorch v2.5\)")], [torch.Tensor](https://pytorch.org/docs/stable/tensors.html#torch.Tensor "\(in **PyTorch** v2.5\)")] None None_)[[source]](https://github.com/UKPLab/sentence-transformers/blob/master/sentence_transfor mers\\trainer.py#L50-L1233)ïf•

SentenceTransformerTrainer is a simple but feature-complete training and eval loop for PyTorch based on the $\delta\ddot{Y}$ m— Transformers

[`Trainer`](https://huggingface.co/docs/transformers/main/en/main_classes/trainer#transformers.Trainer

"\(in transformers vmain\)").

This trainer integrates support for various

[`transformers.TrainerCallback`](https://huggingface.co/docs/transformers/main/en/main_classes/callback#transformers.TrainerCallback

"\(in transformers vmain\)") subclasses, such as:

k

rmers.integrations.WandbCallback "\(in transformers vmain\)") to automatically log training metrics to W&B if wandb is installed

 $\label{thm:constrain} [`TensorBoardCallback`] (https://huggingface.co/docs/transformers/main/en/main_classes/callback\#t). The sorBoardCallback is a simple of the solution o$

ransformers.integrations.TensorBoardCallback "\(in transformers vmain\)") to log training metrics to

TensorBoard if tensorboard is accessible.

[`CodeCarbonCallback`](https://huggingface.co/docs/transformers/main/en/main_classes/callback#tr ansformers.integrations.CodeCarbonCallback "\(in transformers vmain\)") to track the carbon emissions of your model during training if codecarbon is installed.

- > * Note: These carbon emissions will be included in your automatically
- > generated model card.

See the Transformers

[Callbacks](https://huggingface.co/docs/transformers/main/en/main_classes/callback) documentation for more information on the integrated callbacks and how to write your own callbacks.

Parameters:

model

 $([`SentenceTransformer`] (SentenceTransformer.html \# sentence_transformers.SentenceTransformer)) (TentenceTransformer) (TentenceTr$

"sentence_transformers.SentenceTransformer"), _optional_) â€" The model to train, evaluate or use for predictions. If not provided, a model_init must be passed.

* **args**

([`SentenceTransformerTrainingArguments`](training_args.html#sentence_transformers.training_args.SentenceTransformerTrainingArguments

"sentence_transformers.training_args.SentenceTransformerTrainingArguments"), _optional_) – The arguments tweak for training. Will default basic of to to instance ['SentenceTransformerTrainingArguments'](training args.html#sentence transformers.training arg s.SentenceTransformerTrainingArguments

"sentence_transformers.training_args.SentenceTransformerTrainingArguments") with the output_dir set to a directory named _tmp_trainer_ in the current directory if not provided.

* **train dataset**

(Union[[`datasets.Dataset`](https://huggingface.co/docs/datasets/main/en/package_reference/main_ classes#datasets.Dataset "\(in datasets vmain\)"), ['datasets.DatasetDict'](https://huggingface.co/docs/datasets/main/en/package_reference/main_cla sses#datasets.DatasetDict "\(in datasets vmain\)"), ['datasets.IterableDataset'](https://huggingface.co/docs/datasets/main/en/package_reference/main_ classes#datasets.IterableDataset "\(in datasets vmain\)"), Dict[str, ['datasets.Dataset'](https://huggingface.co/docs/datasets/main/en/package_reference/main_classes #datasets.Dataset "\(in datasets vmain\)")]], _optional_) â€" The dataset to use for training. Must have a format accepted by your loss function, see [Training Overview > Dataset Format](../../docs/sentence_transformer/training_overview.html#dataset-format).

eval_dataset

(Union[[`datasets.Dataset`](https://huggingface.co/docs/datasets/main/en/package_reference/main_

The dataset to use for evaluation. Must have a format accepted by your loss function, see [Training Overview > Dataset

Format](../../docs/sentence_transformer/training_overview.html#datasetformat).

loss (Optional[Union[[`torch.nn.Module`](https://pytorch.org/docs/stable/generated/torch.nn.Module.html# torch.nn.Module **PvTorch** "\(in v2.5\)"), Dict[str, ['torch.nn.Module`](https://pytorch.org/docs/stable/generated/torch.nn.Module.html#torch.nn.Module "\(in **PyTorch** v2.5\)")], Callable[[[`SentenceTransformer`](SentenceTransformer.html#sentence transformers.SentenceTra nsformer "sentence_transformers.SentenceTransformer")], ['torch.nn.Module'](https://pytorch.org/docs/stable/generated/torch.nn.Module.html#torch.nn.Module "\(in **PyTorch** v2.5\)")], Dict[str. Callable[[[`SentenceTransformer`](SentenceTransformer.html#sentence_transformers.SentenceTra nsformer "sentence_transformers.SentenceTransformer")]]], _optional_) â€" The loss function to use for training. Can either be a loss class instance, a dictionary mapping dataset names to loss class instances, a function that returns a loss class instance given a model, or a dictionary mapping dataset names to functions that return a loss class instance given a model. In practice, the latter two

are primarily used for hyper-parameter optimization. Will default to [`CoSENTLoss`](losses.html#sentence_transformers.losses.CoSENTLoss "sentence_transformers.losses.CoSENTLoss") if no `loss` is provided.

evaluator

(Union[[`SentenceEvaluator`](evaluation.html#sentence_transformers.evaluation.SentenceEvaluator "sentence_transformers.evaluation.SentenceEvaluator"),

List[[`SentenceEvaluator`](evaluation.html#sentence_transformers.evaluation.SentenceEvaluator "sentence_transformers.evaluation.SentenceEvaluator")]], _optional_) â€" The evaluator instance for useful evaluation metrics during training. You can use an `evaluator` with or without an `eval_dataset`, and vice versa. Generally, the metrics that an `evaluator` returns are more useful than the loss value returned from the `eval_dataset`. A list of evaluators will be wrapped in a [`SequentialEvaluator`](evaluation.html#sentence_transformers.evaluation.SequentialEvaluator "sentence transformers.evaluation.SequentialEvaluator") to run them sequentially.

* **callbacks** (List of [[`transformers.TrainerCallback`](https://huggingface.co/docs/transformers/main/en/main_classes/ca llback#transformers.TrainerCallback "\(in transformers vmain\)")], _optional_) â€"

A list of callbacks to customize the training loop. Will add those to the list of default callbacks detailed in [here](callback).

If you want to remove one of the default callbacks used, use the [Trainer.remove_callback] method.

* **optimizers** (Tuple[:class:`torch.optim.Optimizer, [`torch.optim.lr_scheduler.LambdaLR`](https://pytorch.org/docs/stable/generated/torch.optim.lr_sche

duler.LambdaLR.html#torch.optim.lr_scheduler.LambdaLR "\(in PyTorch v2.5\)")]`, _optional_ , defaults to (None, None)) â€" A tuple containing the optimizer and the scheduler to use. Will default to instance of an [`torch.optim.AdamW`](https://pytorch.org/docs/stable/generated/torch.optim.AdamW.html#torch.opti m.AdamW "\(in PyTorch v2.5\)") on model scheduler your and а given by [`transformers.get_linear_schedule_with_warmup()`](https://huggingface.co/docs/transformers/main/ en/main_classes/optimizer_schedules#transformers.get_linear_schedule_with_warmup "\(in transformers vmain\)") controlled by args.

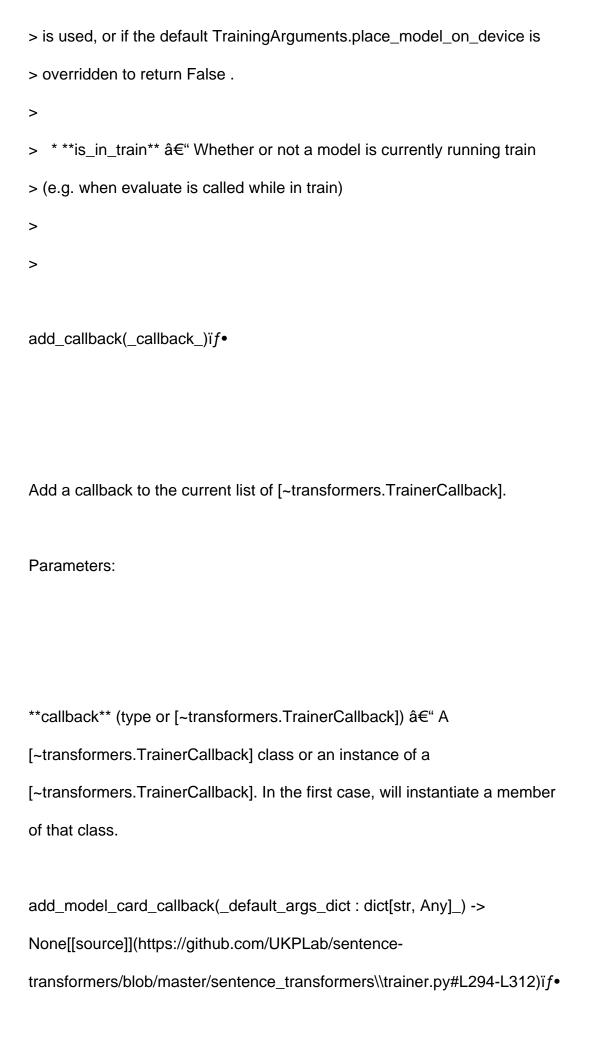
Important attributes:

>

>

>

- > * **model** â€" Always points to the core model. If using a transformers
- > model, it will be a [PreTrainedModel] subclass.
- > * **model_wrapped** â€" Always points to the most external model in case
- > one or more other modules wrap the original model. This is the model that
- > should be used for the forward pass. For example, under DeepSpeed, the inner
- > model is wrapped in DeepSpeed and then again in
- > torch.nn.DistributedDataParallel. If the inner model hasn't been wrapped,
- > then self.model_wrapped is the same as self.model.
- > * **is_model_parallel** â€" Whether or not a model has been switched to a
- > model parallel mode (different from data parallelism, this means some of the
- > model layers are split on different GPUs).
- > ***place_model_on_device** â€" Whether or not to automatically place the
- > model on the device it will be set to False if model parallel or deepspeed



Add a callback responsible for automatically tracking data required for the automatic model card generation

This method is called in the `__init__` method of the `SentenceTransformerTrainer` class.

Parameters:

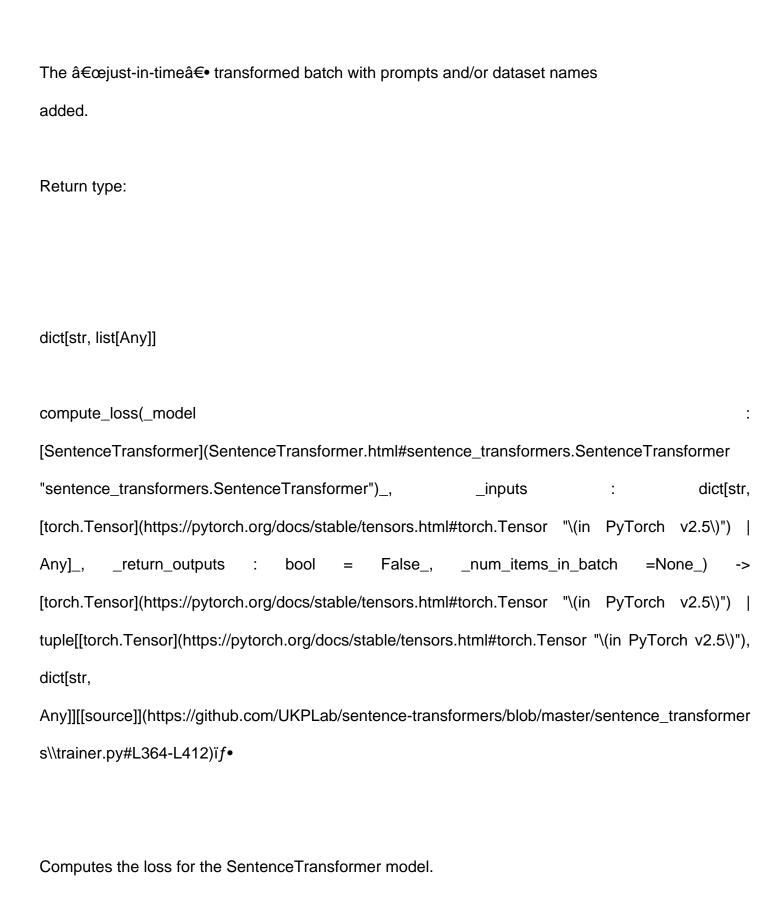
default_args_dict (_Dict_ _[__str_ _,__Any_ _]_) – A dictionary of the default training arguments, so we can determine which arguments have been changed for the model card.

Note

This method can be overriden by subclassing the trainer to remove/customize this callback in custom uses cases

list[Any]][[source]](https://github.com/UKPLab/sentence-transformers/blob/master/sentence_transformers\\trainer.py#L955-L1017)ïf•

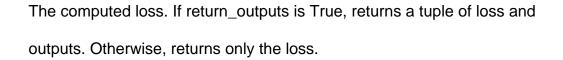
A transform/map function that adds prompts or dataset names to the batch.
Parameters:
* **batch** (_dict[str, _list[Any]]_) – The batch of data, where each key is a
column name and each value is a list of values.
* **prompts** (_dict[str,str] _str None,optional_) – An optional
mapping of column names to string prompts, or a string prompt for all columns. Defaults to None.
* **prompt_lengths** (_dict[str,int] _int None,optional_) – An
optional mapping of prompts names to prompt token length, or a prompt token length if the prompt is
a string. Defaults to None.
* **dataset_name** (_str None,optional_) – The name of this dataset, only if there are
multiple datasets that use a different loss. Defaults to None.
* **transform** (_Callable[[dict[str,list[Any]],dict[str_
,list[Any]],optional) – An optional transform function to apply on the batch
before adding prompts, etc. Defaults to None.
Returns:



It uses `self.loss` to compute the loss, which can be a single loss function

or a dictionary of loss functions for different datasets. If the loss is a

dictionary, the dataset name is expected to be passed in the inputs under the
key "dataset_name―. This is done automatically in the
`add_dataset_name_column` method. Note that even if `return_outputs = True`,
the outputs will be empty, as the SentenceTransformers losses do not return
outputs.
Parameters:
* **model**
$([_SentenceTransformer_] (SentenceTransformer.html \# sentence_transformers. SentenceTransformer_) ([_SentenceTransformer_] ([_SentenceTransformer]) ([_SentenceTransforme$
r "sentence_transformers.SentenceTransformer")) â€" The SentenceTransformer model.
* **inputs** (_Dict[_str,_Union_
[[_torch.Tensor_](https://pytorch.org/docs/stable/tensors.html#torch.Tensor "\(in PyTorch v2.5\)")
,Any]]) – The input data for the model.
* **return_outputs** (_bool,optional_) – Whether to return the outputs along with the loss.
Defaults to False.
* **num_items_in_batch** (_int,optional_) – The number of items in the batch. Defaults to
None. Unused, but required by the transformers Trainer.
Returns:



Return type:

Union[[torch.Tensor](https://pytorch.org/docs/stable/tensors.html#torch.Tensor "\(in PyTorch v2.5\)"),

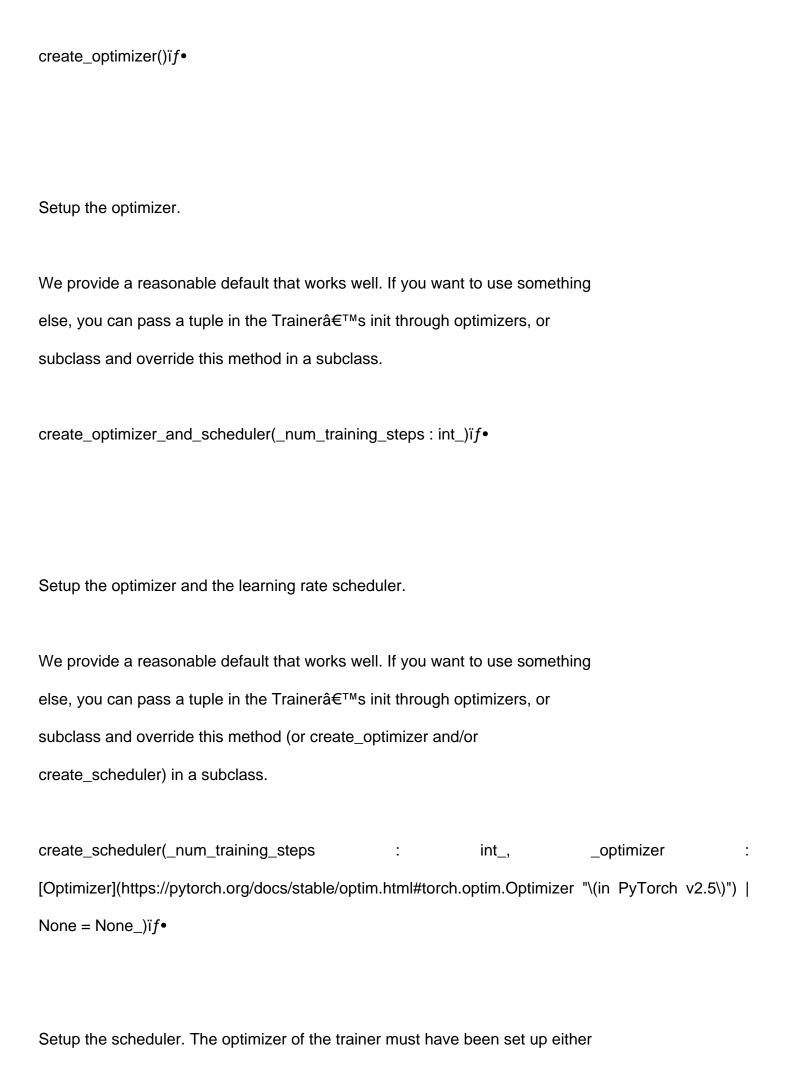
Tuple[[torch.Tensor](https://pytorch.org/docs/stable/tensors.html#torch.Tensor "\(in PyTorch v2.5\)"), Dict[str, Any]]]

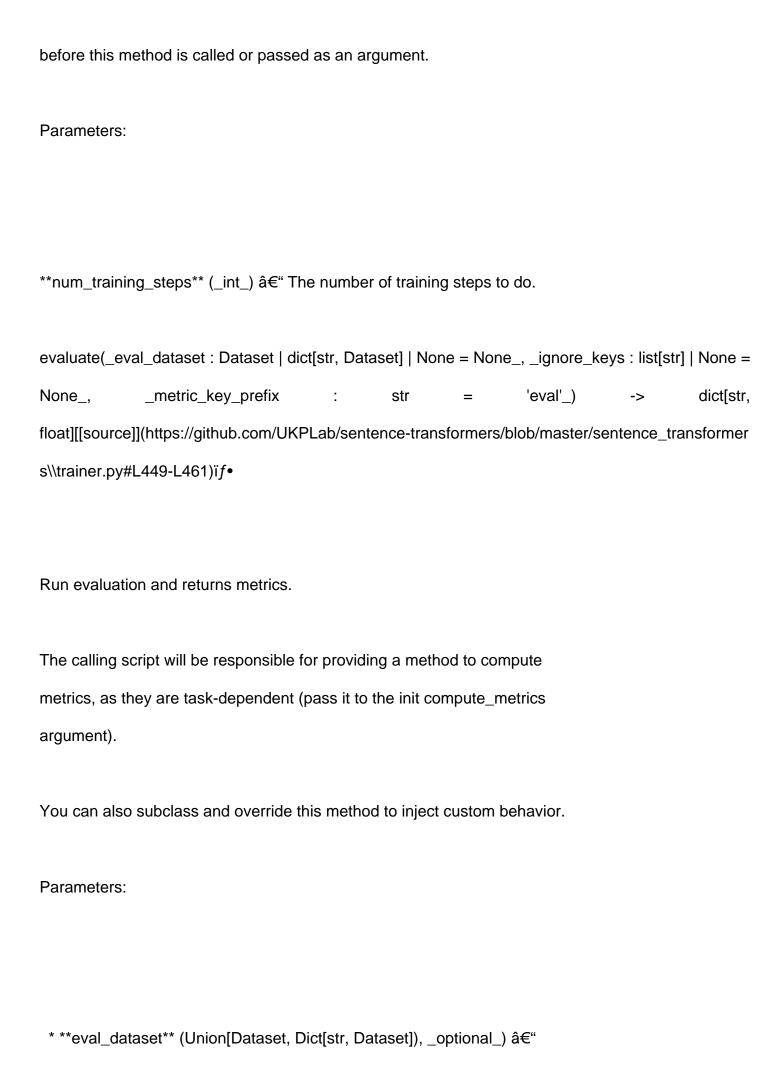
create_model_card(_language : str | None = None_, _license : str | None = None_, _tags : str | list[str] | None = None_, _model_name : str | None = None_, _finetuned_from : str | None = None_, _tasks : str | list[str] | None = None_, _dataset_tags : str | list[str] | None = None_, _dataset : str | list[str] | None = None_, _dataset_args : str | list[str] | None = None_, _** kwargs_) -> None[[source]](https://github.com/UKPLab/sentence-transformers/blob/master/sentence_transforme rs\\trainer.py#L1172-L1195)if•

Creates a draft of a model card using the information available to the Trainer.

Parameters:

- * **language** (str, _optional_) â€" The language of the model (if applicable)
- * **license** (str, _optional_) â€" The license of the model. Will default to the license of the pretrained model used, if the original model given to the Trainer comes from a repo on the Hub.
- * **tags** (str or List[str], _optional_) â€" Some tags to be included in the metadata of the model card.
 - * **model_name** (str, _optional_) â€" The name of the model.
- * **finetuned_from** (str, _optional_) â€" The name of the model used to fine-tune this one (if applicable). Will default to the name of the repo of the original model given to the Trainer (if it comes from the Hub).
- * **tasks** (str or List[str], _optional_) â€" One or several task identifiers, to be included in the metadata of the model card.
- * **dataset_tags** (str or List[str], _optional_) â€" One or several dataset tags, to be included in the metadata of the model card.
- * **dataset** (str or List[str], _optional_) â€" One or several dataset identifiers, to be included in the metadata of the model card.
- * **dataset_args** (str or List[str], _optional_) â€" One or several dataset arguments, to be included in the metadata of the model card.





Pass a dataset if you wish to override self.eval_dataset. If it is a [~datasets.Dataset], columns not accepted by the model.forward() method are automatically removed. If it is a dictionary, it will evaluate on each dataset, prepending the dictionary key to the metric name. Datasets must implement the __len__ method.

<Tip>

If you pass a dictionary with names of datasets as keys and datasets as values, evaluate will run separate evaluations on each dataset. This can be useful to monitor how training affects other datasets or simply to get a more fine-grained evaluation. When used with load_best_model_at_end, make sure metric_for_best_model references exactly one of the datasets. If you, for example, pass in {"data1―: data1, "data2―: data2} for two datasets data1 and data2, you could specify metric_for_best_model=―eval_data1_loss― for using the loss on data1 and metric_for_best_model=―eval_data2_loss― for the loss on data2.

</Tip>

- * **ignore_keys** (List[str], _optional_) â€" A list of keys in the output of your model (if it is a dictionary) that should be ignored when gathering predictions.
- * **metric_key_prefix** (str, _optional_ , defaults to "eval―) An optional prefix to be used as the metrics key prefix. For example the metrics "bleu― will be named "eval_bleu― if the prefix is "eval― (default)

A dictionary containing the evaluation loss and the	he potential me	etrics computed	
from the predictions. The dictionary also contains	s the epoch nu	ımber which	
comes from the training state.			
get_batch_sampler(_dataset : Dataset_,	_batch_size	: int_, _dro	pp_last : bool_,
_valid_label_columns : list[str]	None	= None_,	_generator :
[Generator](https://pytorch.org/docs/stable/gene	rated/torch.Ge	nerator.html#torch	n.Generator "\(in
PyTorch v2.5\)")	None	= 1	None_) ->
[BatchSampler](https://pytorch.org/docs/stable/d	ata.html#torch	.utils.data.BatchS	ampler "\(in
PyTorch	v2.5\)")		I
None[[source]](https://github.com/UKPLab/sente	ence-transform	ers/blob/master/se	entence_transforme
rs\\trainer.py#L549-L603)ïf∙			
Returns the appropriate batch sampler based on	the `batch_sa	ımpler` argument i	in
`self.args`. This batch sampler class supports `_	_len` and `_	_iter`	
methods, and is used as the `batch_sampler` to	create the		
[`torch.utils.data.DataLoader`](https://pytorch.org	g/docs/stable/d	ata.html#torch.util	ls.data.DataLoader
"\(in PyTorch v2.5\)").			

Returns:

Note

Override this method to provide a custom batch sampler.
Parameters:
* **dataset** (_Dataset_) – The dataset to sample from.
* **batch_size** (_int_) – Number of samples per batch.
* **drop_last** (_bool_) – If True, drop the last incomplete batch if the dataset size is not divisible
by the batch size.
* **valid_label_columns** (_List[str]_) – List of column names to check for labels. The
first column name from `valid_label_columns` found in the dataset will be used as the label column.
* **generator**
([_torch.Generator_](https://pytorch.org/docs/stable/generated/torch.Generator.html#torch.Generato
r "\(in PyTorch v2.5\)") _,optional_) â€" Optional random number generator for shuffling the
indices.
get_eval_dataloader(_eval_dataset : Dataset DatasetDict IterableDataset None = None_) ->
[DataLoader](https://pytorch.org/docs/stable/data.html#torch.utils.data.DataLoader "\(in PyTorch
v2.5\)")[[source]](https://github.com/UKPLab/sentence-transformers/blob/master/sentence_transfor
mers\\trainer.py#L732-L822)ïf•

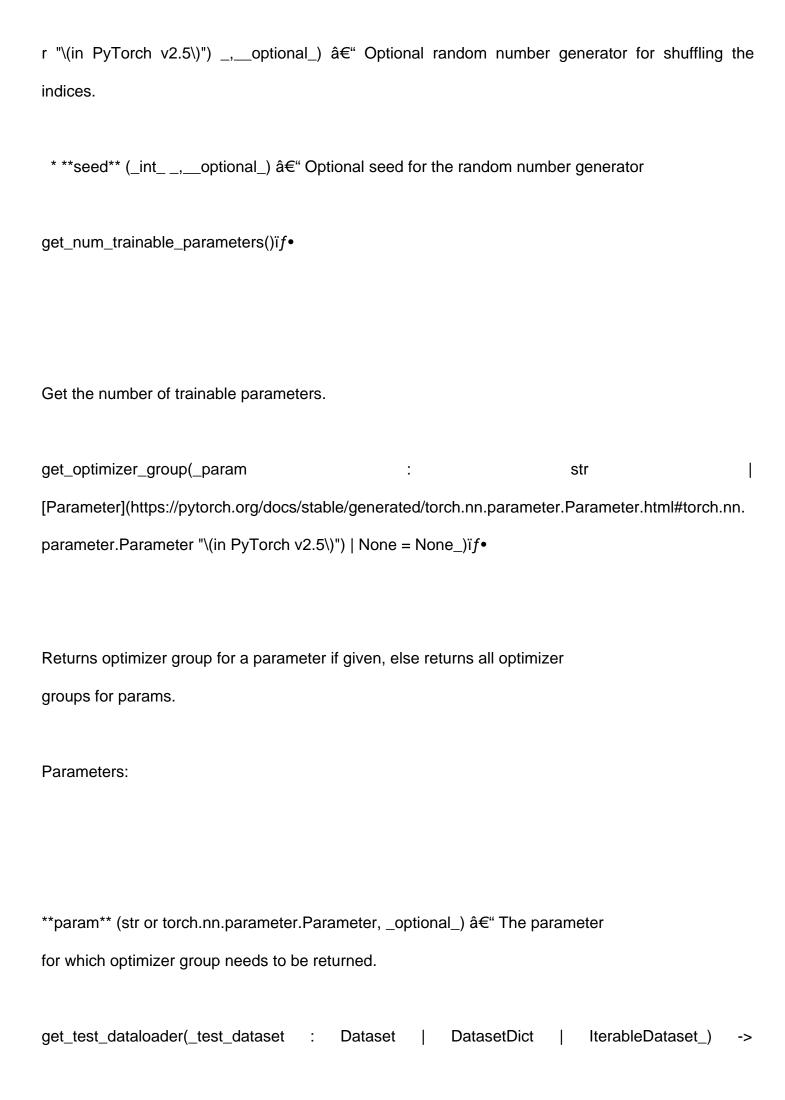
Subclass and override this method if you want to inject some custom behavior.				
Parameters:				
eval_dataset (torch.utils.data.Dataset, _optional_) – If provided, will				
override self.eval_dataset. If it is a [~datasets.Dataset], columns not				
accepted by the model.forward() method are automatically removed. It must				
implementlen				
get_learning_rates()ïf•				
Returns the learning rate of each parameter from self.optimizer.				
get_multi_dataset_batch_sampler(_dataset				
[ConcatDataset](https://pytorch.org/docs/stable/data.html#torch.utils.data.ConcatDataset "\(in				
PyTorch v2.5\)")_, _batch_samplers				
list[[BatchSampler](https://pytorch.org/docs/stable/data.html#torch.utils.data.BatchSampler "\(ir				
PyTorch v2.5\)")]_, _generator				
[Generator](https://pytorch.org/docs/stable/generated/torch.Generator.html#torch.Generator "\(ir				
PyTorch v2.5\)") None = None_, _seed : int None = 0_) ->				
[BatchSampler](https://pytorch.org/docs/stable/data.html#torch.utils.data.BatchSampler "\(ir				

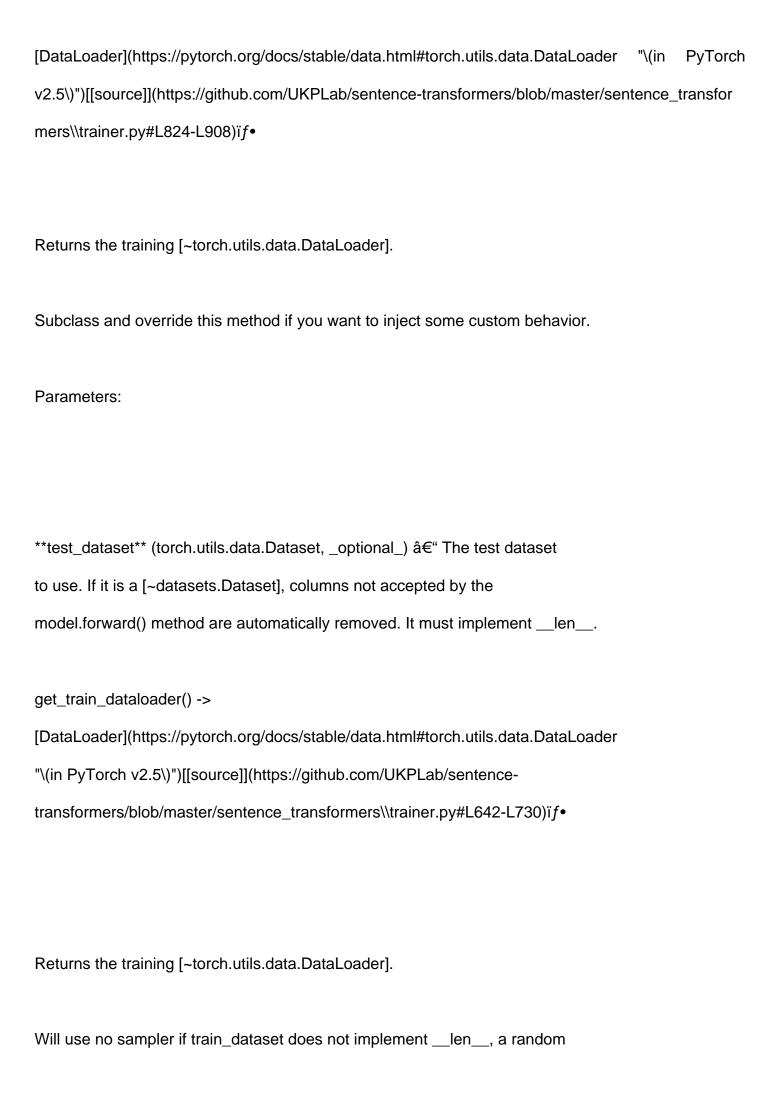
Returns the evaluation [~torch.utils.data.DataLoader].

PyTorch
v2.5\)")[[source]](https://github.com/UKPLab/sentence-transformers/blob/master/sentence_transfor
mers\\trainer.py#L605-L640)ïf•
Returns the appropriate multi-dataset batch sampler based on the
`multi_dataset_batch_sampler` argument in `self.args`. This batch sampler
class supports `len` and `iter` methods, and is used as the
`batch_sampler` to create the
[`torch.utils.data.DataLoader`](https://pytorch.org/docs/stable/data.html#torch.utils.data.DataLoader
"\(in PyTorch v2.5\)").
Note
Override this method to provide a custom multi-dataset batch sampler.
Parameters:
* **dataset** (_ConcatDataset_) – The concatenation of all datasets.
* **batch_samplers** (_List[BatchSampler]_) – List of batch samplers for each dataset in
the concatenated dataset.

 $([_torch.Generator_] (https://pytorch.org/docs/stable/generated/torch.Generator.html \# torch.Generator)) (limited from the properties of the properties of$

generator





sampler (adapted to distributed training if necessary) otherwise.

Subclass and override this method if you want to inject some custom behavior.

hyperparameter_search(_hp_space : Callable[[optuna.Trial], Dict[str, float]] | None = None_,
_compute_objective : Callable[[Dict[str, float]], float] | None = None_, _n_trials : int = 20_, _direction
: str | List[str] = 'minimize'_, _backend : str | HPSearchBackend | None = None_, _hp_name :
Callable[[optuna.Trial], str] | None = None_, _** kwargs_) -> BestRun | List[BestRun]if •

Launch an hyperparameter search using optuna or Ray Tune or SigOpt. The optimized quantity is determined by compute_objective, which defaults to a function returning the evaluation loss when no metric is provided, the sum of all metrics otherwise.

<Tip warning={true}>

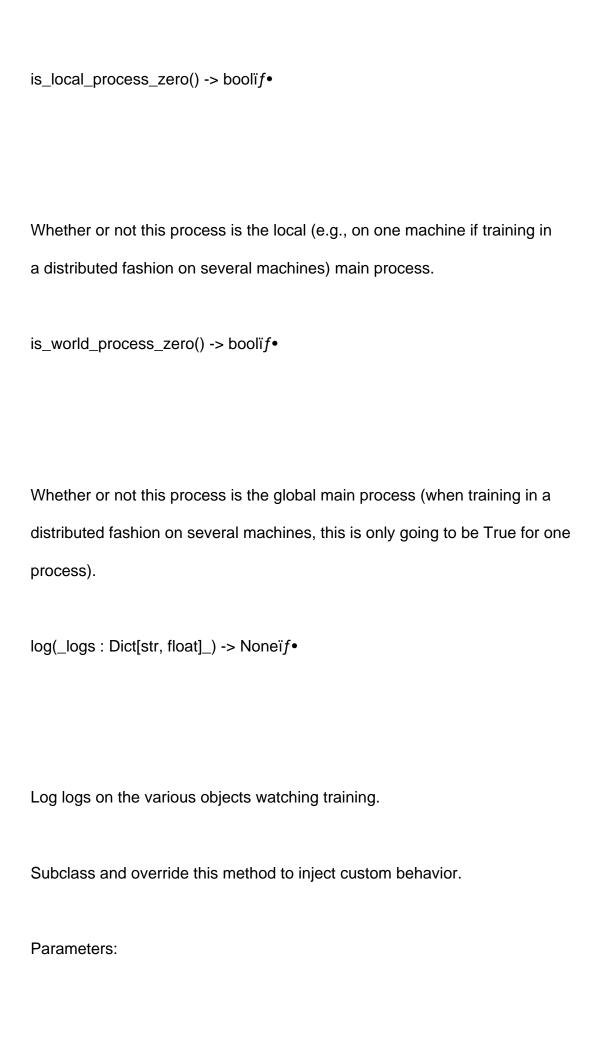
To use this method, you need to have provided a model_init when initializing your [Trainer]: we need to reinitialize the model at each new run. This is incompatible with the optimizers argument, so you need to subclass [Trainer] and override the method [~Trainer.create_optimizer_and_scheduler] for custom optimizer/scheduler.

</Tip>

Parameters:

- * **hp_space** (Callable[["optuna.Trial―], Dict[str, float]], _optional_) A function that defines the hyperparameter search space. Will default to [~trainer_utils.default_hp_space_optuna] or [~trainer_utils.default_hp_space_ray] or [~trainer_utils.default_hp_space_sigopt] depending on your backend.
- * **compute_objective** (Callable[[Dict[str, float]], float], _optional_) â€" A function computing the objective to minimize or maximize from the metrics returned by the evaluate method. Will default to [~trainer_utils.default_compute_objective].
 - * **n_trials** (int, _optional_ , defaults to 100) â€" The number of trial runs to test.
- * **direction** (str or List[str], _optional_ , defaults to "minimize―) If it's single objective optimization, direction is str, can be "minimize― or "maximize―, you should pick "minimize― when optimizing the validation loss, "maximize― when optimizing one or several metrics. If it's multi objectives optimization, direction is List[str], can be List of "minimize― and "maximize―, you should pick "minimize― when optimizing the validation loss, "maximize― when optimizing one or several metrics.
- * **backend** (str or [~training_utils.HPSearchBackend], _optional_) â€" The backend to use for hyperparameter search. Will default to optuna or Ray Tune or SigOpt, depending on which one is installed. If all are installed, will default to optuna.
- * **hp_name** (Callable[["optuna.Trial―], str]], _optional_) A function that defines the trial/run name. Will default to None.

* **kwargs** (Dict[str, Any], _optional_)	–			
Additional keyword arguments passed ale	ong to optu	na.create_stud	y or	
ray.tune.run. For more information see:				
	*	the	documentation	of
[optuna.create_study](<https: optuna.rea<="" td=""><td>adthedocs.i</td><td>o/en/stable/refe</td><td>erence/generated/optuna.</td><td>study.cr</td></https:>	adthedocs.i	o/en/stable/refe	erence/generated/optuna.	study.cr
eate_study.html>)				
	*	the	documentation	of
[tune.run](<https: docs.ray.io="" en="" latest="" td="" tu<=""><td>ine/api_doc</td><td>s/execution.htr</td><td>nl#tune-run>)</td><td></td></https:>	ine/api_doc	s/execution.htr	nl#tune-run>)	
* the documentation of [sigopt](<https: <="" td=""><td>//app.sigop</td><td>t.com/docs/end</td><td>points/experiments/create</td><td>e>)</td></https:>	//app.sigop	t.com/docs/end	points/experiments/create	e>)
Returns:				
All the information about the best run or b	pest runs fo	r multi-objectiv	Э	
optimization. Experiment summary can b	e found in r	run_summary a	ttribute for Ray	
backend.				
Return type:				
Itrainer utils BestRun or ListItrainer utils	RestRunll			

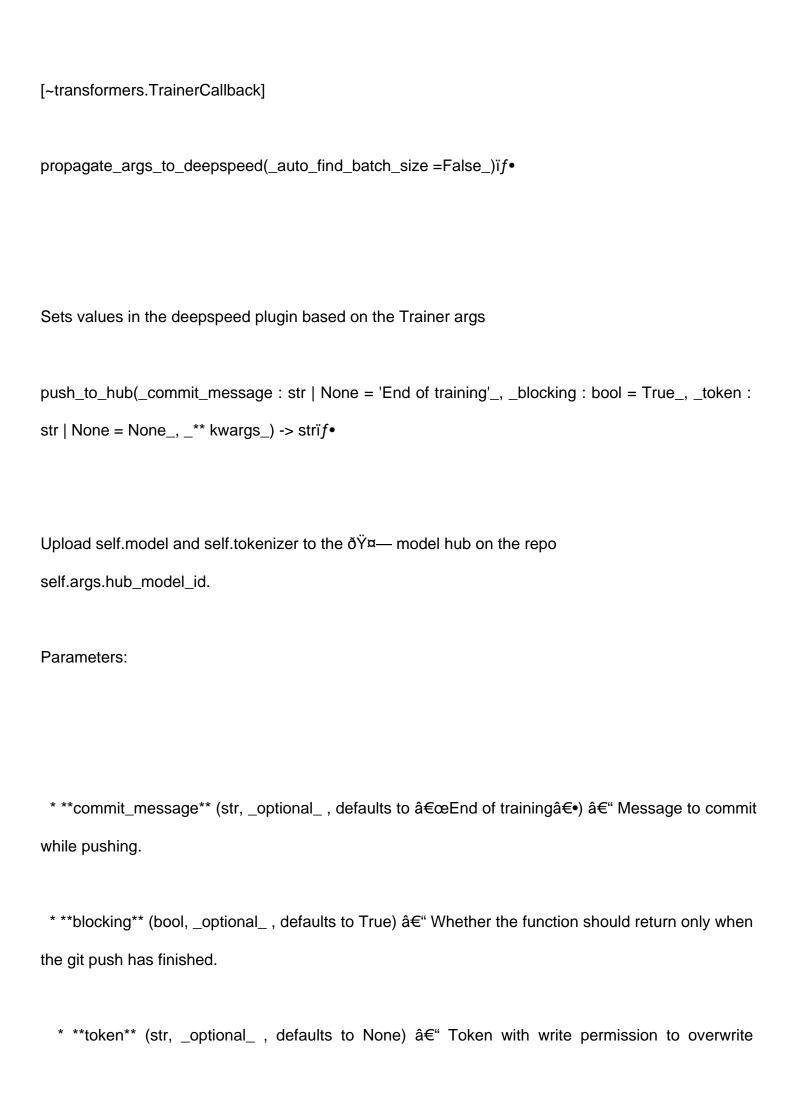


logs (Dict	ː[str, float]) – Th	e values to log.				
maybe_add_	_prompts_or_datas	set_name_column(_d	lataset_dic	ct : Dataset[Dict Dataset	None_,
prompts : c	lict[str, dict[str, str]] dict[str, str] str	None =	None, _data	aset_name : str	None =
None_)	->	DatasetDict		1	Dataset	I
None[[source	e]](https://github.co	om/UKPLab/sentence	e-transform	ners/blob/mas	ster/sentence_tra	ansforme
rs\\trainer.py	#L1019-L1072)ï <i>f</i> •					
Maybe add p	rompts or dataset	names to the datase	t. We add	the dataset_ı	name	
column to the	e dataset if:					
1. The loss	is a dictionary and	I the dataset is a Data	asetDict, o	r		
0. Th						
2. The pron	npts contain a map	oping to dataset name	es.			
There are 4 of	cases for the prom	ipts:				
	p	F				
1. str: One	prompt for all data	sets and columns.				
2. dict[str, s	tr]: A column to pr	ompt mapping.				
3. dict[str, s	tr]: A dataset to pr	ompt mapping.				
4. dict[str, d	lict[str, str]]: A data	set to column to pror	npt mappi	ng.		

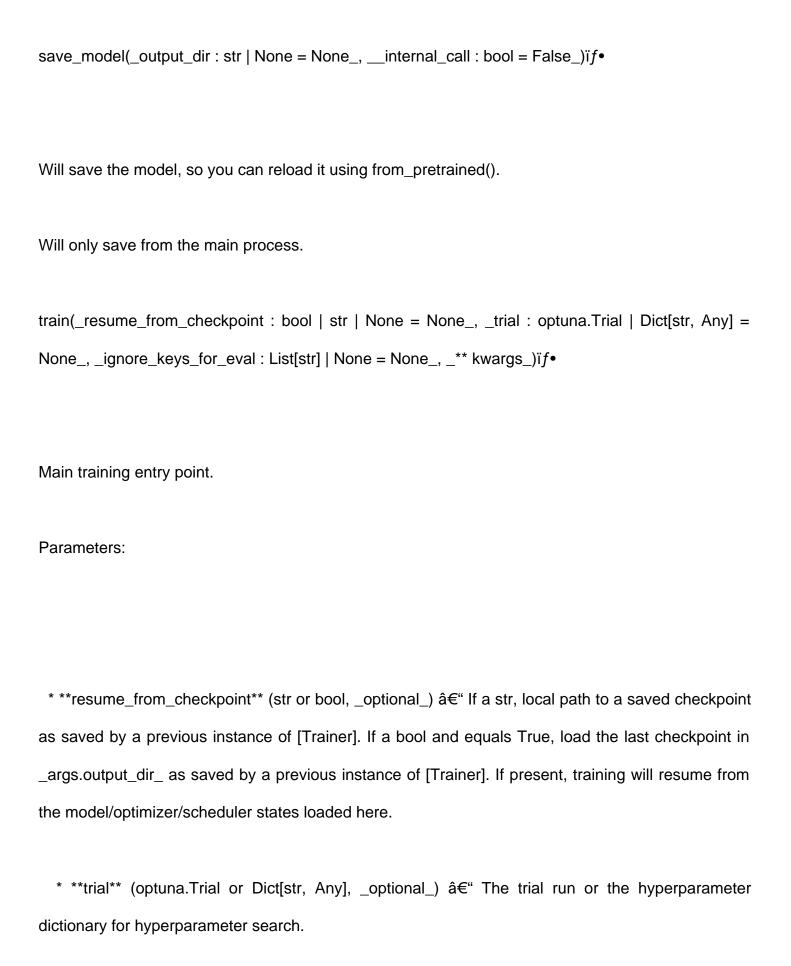
Dataset: A single dataset.
2. DatasetDict: A dictionary of datasets.
3A is not allowed, and 2A doesn't make sense.
Parameters:
dataset_dict (_DatasetDict Dataset None_) – The dataset to add
prompts or dataset names to.
Returns:
The dataset with prompts or dataset names added.
Return type:
DatasetDict Dataset None

And 2 cases for the dataset:

pop_callback(_callback_)if•
Remove a callback from the current list of [~transformers.TrainerCallback] and returns it.
If the callback is not found, returns None (and no error is raised).
Parameters:
callback (type or [~transformers.TrainerCallback]) – A
[~transformers.TrainerCallback] class or an instance of a
[~transformers.TrainerCallback]. In the first case, will pop the first member
of that class found in the list of callbacks.
Returns:
The callback removed, if found.
Return type:



Trainer's original args.
* **kwargs** (Dict[str, Any], _optional_) – Additional keyword arguments passed along to [~Trainer.create_model_card].
Returns:
The URL of the repository where the model was pushed if blocking=False, or a
Future object tracking the progress of the commit if blocking=True.
remove_callback(_callback_)ïf•
Demove a callback from the gurrent list of E transformers Trainer Callback
Remove a callback from the current list of [~transformers.TrainerCallback].
Parameters:
callback (type or [~transformers.TrainerCallback]) – A
[~transformers.TrainerCallback] class or an instance of a
[~transformers.TrainerCallback]. In the first case, will remove the first
member of that class found in the list of callbacks.



* **ignore keys for eval** (List[str], optional) â€" A list of keys in the output of your model (if it is

a dictionary) that should be ignored when gathering predictions for evaluation during the training.

* **kwargs** (Dict[str, Any], _optional_) – Additional keyword arguments used to hide deprecated arguments

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* * *

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](training_args.html "Training Arguments")

Built with [Sphinx](https://www.sphinx-doc.org/) using a [theme](https://github.com/readthedocs/sphinx_rtd_theme) provided by [Read the Docs](https://readthedocs.org).