TencorFlow

TensorFlow API r1.4

tf.keras.optimizers.Adagrad

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Class Adagrad

Inherits From: Optimizer

Defined in tensorflow/python/keras/_impl/keras/optimizers.py.

Adagrad optimizer.

It is recommended to leave the parameters of this optimizer at their default values.

Arguments:

- 1r: float >= 0. Learning rate.
- epsilon: float >= 0.
- decay: float >= 0. Learning rate decay over each update.

References: - Adaptive Subgradient Methods for Online Learning and Stochastic Optimization

Methods

__init__

from_config

```
from_config(
   cls,
   config
)
```

get_config

```
get_config()
```

get_gradients

```
get_gradients(
   loss,
   params
)
```

get_updates

```
get_updates(
   loss,
   params
)
```

get_weights

```
get_weights()
```

Returns the current value of the weights of the optimizer.

Returns:

A list of numpy arrays.

set_weights

```
set_weights(weights)
```

Sets the weights of the optimizer, from Numpy arrays.

Should only be called after computing the gradients (otherwise the optimizer has no weights).

Arguments:

• weights: a list of Numpy arrays. The number of arrays and their shape must match number of the dimensions of the weights of the optimizer (i.e. it should match the output of get_weights).

Raises:

• ValueError: in case of incompatible weight shapes.

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