TencorFlow

TensorFlow API r1.4

tf.keras.optimizers.Adam

```
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Class Adam

Inherits From: Optimizer

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

Adam optimizer.

Default parameters follow those provided in the original paper.

Arguments:

- 1r: float >= 0. Learning rate.
- beta_1: float, 0 < beta < 1. Generally close to 1.
- beta_2: float, 0 < beta < 1. Generally close to 1.
- epsilon: float >= 0. Fuzz factor.
- decay: float >= 0. Learning rate decay over each update.

References: - Adam - A Method for 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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