tf.keras.constraints.MaxNorm

Class `MaxNorm`

Inherits From: `Constraint`

Aliases:

- Class `tf.keras.constraints.MaxNorm`
- Class `tf.keras.constraints.max_norm`

Defined in `tensorflow/python/keras/_impl/keras/constraints.py`.

MaxNorm weight constraint.

Constrains the weights incident to each hidden unit to have a norm less than or equal to a desired value.

Arguments:

- `m`: the maximum norm for the incoming weights.
- `axis`: integer, axis along which to calculate weight norms. For instance, in a `Dense` layer the weight matrix has shape `(input_dim, output_dim)`, set `axis` to `0` to constrain each weight vector of length `(input_dim,)`. In a `Conv2D` layer with `data_format="channels_last"`, the weight tensor has shape `(rows, cols, input_depth, output_depth)`, set `axis` to `[0, 1, 2]` to constrain the weights of each filter tensor of size `(rows, cols, input_depth)`.

References: - Dropout: A Simple Way to Prevent Neural Networks from Overfitting Srivastava, Hinton, et al. 2014

Methods

`__init__`

```
__init__(
    max_value=2,
    axis=0
)
```

`__call__`

```
__call__(w)
```

get_config

```
get_config()
```

Last updated November 2, 2017.