TopogrElow

TensorFlow API r1.4

tf.keras.constraints.MinMaxNorm

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Class MinMaxNorm

Inherits From: Constraint

Aliases:

- Class tf.keras.constraints.MinMaxNorm
- Class tf.keras.constraints.min_max_norm

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

MinMaxNorm weight constraint.

Constrains the weights incident to each hidden unit to have the norm between a lower bound and an upper bound.

Arguments:

- min_value: the minimum norm for the incoming weights.
- max_value: the maximum norm for the incoming weights.
- rate: rate for enforcing the constraint: weights will be rescaled to yield (1 rate) * norm + rate * norm.clip(min_value, max_value)
 . Effectively, this means that rate=1.0 stands for strict enforcement of the constraint, while rate<1.0 means that weights will be rescaled at each step to slowly move towards a value inside the desired interval.
- 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 dim_ordering="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).

Methods

__init__

```
__init__(
    min_value=0.0,
    max_value=1.0,
    rate=1.0,
    axis=0
)
```

```
__call__
```

```
__call__(w)
```

get_config

```
get_config()
```

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