tf.truncated_normal_initializer

Contents

Class `truncated_normal_initializer`

Inherits From: `Initializer`

Aliases:

- Class `tf.initializers.truncated_normal`
- Class `tf.keras.initializers.TruncatedNormal`
- Class `tf.truncated_normal_initializer`

Defined in `tensorflow/python/ops/init_ops.py` .

See the guide: Variables > Sharing Variables

Initializer that generates a truncated normal distribution.

These values are similar to values from a `random_normal_initializer` except that values more than two standard deviations from the mean are discarded and re-drawn. This is the recommended initializer for neural network weights and filters.

Args:

- `mean` : a python scalar or a scalar tensor. Mean of the random values to generate.
- `stddev` : a python scalar or a scalar tensor. Standard deviation of the random values to generate.
- `seed` : A Python integer. Used to create random seeds. See `tf.set_random_seed` for behavior.
- `dtype` : The data type. Only floating point types are supported.

Methods

`__init__`

```
__init__(
    mean=0.0,
    stddev=1.0,
    seed=None,
    dtype=tf.float32
)
```

__call__

```
__call__(
    shape,
    dtype=None,
    partition_info=None
)
```

from_config

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

Instantiates an initializer from a configuration dictionary.

Example:

```
initializer = RandomUniform(-1, 1)
config = initializer.get_config()
initializer = RandomUniform.from_config(config)
```

Args:

- `config` : A Python dictionary. It will typically be the output of `get_config` .

Returns:

An Initializer instance.

get_config

```
get_config()
```

Support

Issue Tracker

Release Notes

Stack Overflow

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