TancarFlow

TensorFlow API r1.4

tf.nn.avg_pool

```
avg_pool(
    value,
    ksize,
    strides,
    padding,
    data_format='NHWC',
    name=None
)
```

Defined in tensorflow/python/ops/nn_ops.py.

See the guide: Neural Network > Pooling

Performs the average pooling on the input.

Each entry in output is the mean of the corresponding size ksize window in value.

Args:

- value: A 4-D Tensor of shape [batch, height, width, channels] and type float32, float64, qint8, quint8, or qint32.
- ksize: A 1-D int Tensor of 4 elements. The size of the window for each dimension of the input tensor.
- strides: A 1-D int Tensor of 4 elements The stride of the sliding window for each dimension of the input tensor.
- padding: A string, either 'VALID' or 'SAME'. The padding algorithm. See the comment here
- data_format : A string. 'NHWC' and 'NCHW' are supported.
- name: Optional name for the operation.

Returns:

A **Tensor** with the same type as **value**. The average pooled output tensor.

Except as otherwise noted, the content of this page is licensed under the Creative Commons Attribution 3.0 License, and code samples are licensed under the Apache 2.0 License. For details, see our Site Policies. Java is a registered trademark of Oracle and/or its affiliates.

Last updated November 2, 2017.

Stay Connected

Blog

GitHub

Twitter

Support

Issue Tracker
Release Notes
Stack Overflow

English
Terms | Privacy