TancarFlow

TensorFlow API r1.4

tf.nn.avg_pool3d

```
avg_pool3d(
    input,
    ksize,
    strides,
    padding,
    data_format='NDHWC',
    name=None
)
```

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

See the guide: Neural Network > Pooling

Performs 3D average pooling on the input.

Args:

- input: A Tensor. Must be one of the following types: float32, float64. Shape [batch, depth, rows, cols, channels] tensor to pool over.
- ksize: A list of ints that has length >= 5.1-D tensor of length 5. The size of the window for each dimension of the input tensor. Must have ksize[0] = ksize[4] = 1.
- strides: A list of ints that has length >= 5.1-D tensor of length 5. The stride of the sliding window for each dimension of input. Must have strides[0] = strides[4] = 1.
- padding: A string from: "SAME", "VALID". The type of padding algorithm to use.
- data_format: An optional string from: "NDHWC", "NCDHW". Defaults to "NDHWC". The data format of the input and output data. With the default format "NDHWC", the data is stored in the order of: [batch, in_depth, in_height, in_width, in_channels]. Alternatively, the format could be "NCDHW", the data storage order is: [batch, in_channels, in_depth, in_height, in_width].
- name: A name for the operation (optional).

Returns:

A Tensor . Has the same type as input . 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 Englis	
Terms Privacy	