## TancarFlow

TensorFlow API r1.4

tf.contrib.layers.avg\_pool3d

```
avg_pool3d(
   inputs,
   kernel_size,
   stride=2,
   padding='VALID',
   data_format=DATA_FORMAT_NDHWC,
   outputs_collections=None,
   scope=None
)
```

Defined in tensorflow/contrib/layers/python/layers/layers.py.

Adds a 3D average pooling op.

It is assumed that the pooling is done per image but not in batch or channels.

## Args:

- inputs: A 5-D tensor of shape [batch\_size, depth, height, width, channels] if data\_format is NDHWC, and [batch\_size, channels, depth, height, width] if data\_format is NCDHW.
- kernel\_size: A list of length 3: [kernel\_depth, kernel\_height, kernel\_width] of the pooling kernel over which the op is computed. Can be an int if both values are the same.
- stride: A list of length 3: [stride\_depth, stride\_height, stride\_width]. Can be an int if both strides are the same. Note that presently both strides must have the same value.
- padding: The padding method, either 'VALID' or 'SAME'.
- data\_format: A string. NDHWC (default) and NCDHW are supported.
- outputs\_collections : The collections to which the outputs are added.
- scope: Optional scope for name\_scope.

## Returns:

A **Tensor** representing the results of the pooling operation.

## Raises:

ValueError: If data\_format is neither NDHWC nor NCDHW.

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.

GitHub	
Twitter	
Support	
Issue Tracker	
Release Notes	
Stack Overflow	
English	
Terms   Privacy	