TopoorFlow

TensorFlow API r1.4

tf.contrib.layers.avg_pool2d

```
avg_pool2d(
   inputs,
   kernel_size,
   stride=2,
   padding='VALID',
   data_format=DATA_FORMAT_NHWC,
   outputs_collections=None,
   scope=None
)
```

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

See the guide: Layers (contrib) > Higher level ops for building neural network layers

Adds a 2D average pooling op.

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

Args:

- inputs: A 4-D tensor of shape [batch_size, height, width, channels] if data_format is NHWC, and [batch_size, channels, height, width] if data_format is NCHW.
- kernel_size: A list of length 2: [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 2: [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. NHWC (default) and NCHW 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 NHWC nor NCHW.

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