TancarFlow

TensorFlow API r1.4

tf.nn.max_pool3d

```
max_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 max pooling on the input.

Args:

- input: A **Tensor**. Must be one of the following types: **float32**. 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 max pooled output tensor.

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