

## tf.layers.average\_pooling1d

```
average_pooling1d(  
    inputs,  
    pool_size,  
    strides,  
    padding='valid',  
    data_format='channels_last',  
    name=None  
)
```

Defined in [tensorflow/python/layers/pooling.py](#).

Average Pooling layer for 1D inputs.

## Arguments:

- **inputs**: The tensor over which to pool. Must have rank 3.
- **pool\_size**: An integer or tuple/list of a single integer, representing the size of the pooling window.
- **strides**: An integer or tuple/list of a single integer, specifying the strides of the pooling operation.
- **padding**: A string. The padding method, either 'valid' or 'same'. Case-insensitive.
- **data\_format**: A string, one of **channels\_last** (default) or **channels\_first**. The ordering of the dimensions in the inputs. **channels\_last** corresponds to inputs with shape **(batch, length, channels)** while **channels\_first** corresponds to inputs with shape **(batch, channels, length)**.
- **name**: A string, the name of the layer.

## Returns:

The output tensor, of rank 3.

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