

Poolings

BasePoolingType

`class paddle.trainer_config_helpers.poolings.BasePoolingType(name)`

Base Pooling Type. Note these pooling types are used for sequence input, not for images. Each PoolingType contains one parameter:

Parameters: `name` (*basestring*) — pooling layer type name used by paddle.

AvgPooling

`class paddle.trainer_config_helpers.poolings.AvgPooling(strategy='average')`

Average pooling.

Return the average values for each dimension in sequence or time steps.

$$\text{sum}(\text{samples_of_a_sequence}) / \text{sample_num}$$

MaxPooling

`class paddle.trainer_config_helpers.poolings.MaxPooling(output_max_index=None)`

Max pooling.

Return the very large values for each dimension in sequence or time steps.

$$\text{max}(\text{samples_of_a_sequence})$$

Parameters: `output_max_index` (*bool/None*) — True if output sequence max index instead of max value. None means use default value in proto.

SumPooling

`class paddle.trainer_config_helpers.poolings.SumPooling`

Sum pooling.

Return the sum values of each dimension in sequence or time steps.

$$\text{sum}(\text{samples_of_a_sequence})$$

SquareRootNPooling

`class paddle.trainer_config_helpers.poolings.SquareRootNPooling`

Square Root Pooling.

Return the square root values of each dimension in sequence or time steps.

sum(samples_of_a_sequence)/sqrt(sample_num)