### TancarFlow

TensorFlow API r1.4

# tf.contrib.framework.nest.flatten

# flatten(nest)

Defined in tensorflow/python/util/nest.py.

Returns a flat list from a given nested structure.

If **nest** is not a sequence, tuple, or dict, then returns a single-element list: **[nest]**.

In the case of dict instances, the sequence consists of the values, sorted by key to ensure deterministic behavior. This is true also for <code>OrderedDict</code> instances: their sequence order is ignored, the sorting order of keys is used instead. The same convention is followed in <code>pack\_sequence\_as</code>. This correctly repacks dicts and <code>OrderedDict</code> s after they have been flattened, and also allows flattening an <code>OrderedDict</code> and then repacking it back using a correponding plain dict, or viceversa. Dictionaries with non-sortable keys cannot be flattened.

# Args:

nest: an arbitrarily nested structure or a scalar object. Note, numpy arrays are considered scalars.

### Returns:

A Python list, the flattened version of the input.

### Raises:

• TypeError: The nest is or contains a dict with non-sortable keys.

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Last updated November 2, 2017.

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