tf.contrib.layers.stack

```
stack(
    inputs,
    layer,
    stack_args,
    **kwargs
)
```

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

Builds a stack of layers by applying layer repeatedly using stack_args.

`stack` allows you to repeatedly apply the same operation with different arguments `stack_args[i]`. For each application of the layer, `stack` creates a new scope appended with an increasing number. For example:

```
  y = stack(x, fully_connected, [32, 64, 128], scope='fc')
  # It is equivalent to:

  x = fully_connected(x, 32, scope='fc/fc_1')
  x = fully_connected(x, 64, scope='fc/fc_2')
  y = fully_connected(x, 128, scope='fc/fc_3')
```

If the `scope` argument is not given in `kwargs`, it is set to `layer.__name__`, or `layer.func.__name__` (for `functools.partial` objects). If neither `__name__` nor `func.__name__` is available, the layers are called with `scope='stack'`.

Args:

- `inputs`: A `Tensor` suitable for layer.
- `layer`: A layer with arguments `(inputs, *args, **kwargs)`
- `stack_args`: A list/tuple of parameters for each call of layer.
- `**kwargs`: Extra kwargs for the layer.

Returns:

A `Tensor` result of applying the stacked layers.

Raises:

- `ValueError`: If the op is unknown or wrong.

Stay Connected

Blog

GitHub

Twitter

Support

Issue Tracker

Release Notes

Stack Overflow

English

Terms | **Privacy**