TencorFlow

TensorFlow API r1.4

tf.contrib.layers.repeat

```
repeat(
   inputs,
   repetitions,
   layer,
   *args,
   **kwargs
)
```

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

See the guide: Layers (contrib) > Higher level ops for building neural network layers

Applies the same layer with the same arguments repeatedly.

```
y = repeat(x, 3, conv2d, 64, [3, 3], scope='conv1')
# It is equivalent to:

x = conv2d(x, 64, [3, 3], scope='conv1/conv1_1')
x = conv2d(x, 64, [3, 3], scope='conv1/conv1_2')
y = conv2d(x, 64, [3, 3], scope='conv1/conv1_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.
- repetitions: Int, number of repetitions.
- layer: A layer with arguments (inputs, *args, **kwargs)
- *args: Extra args for the layer.
- **kwargs: Extra kwargs for the layer.

Returns:

A tensor result of applying the layer, repetitions times.

Raises:

• ValueError: If the op is unknown or wrong.

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