tf.contrib.layers.maxout

```
maxout(
    inputs,
    num_units,
    axis=-1,
    name=None
)
```

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

Adds a maxout op from https://arxiv.org/abs/1302.4389

"Maxout Networks" Ian J. Goodfellow, David Warde-Farley, Mehdi Mirza, Aaron Courville, Yoshua Bengio

Usually the operation is performed in the filter/channel dimension. This can also be used after fully-connected layers to reduce number of features.

Arguments: inputs: Tensor input num_units: Specifies how many features will remain after maxout in the `axis` dimension (usually channel). This must be multiple of number of `axis` . axis: The dimension where max pooling will be performed. Default is the last dimension. name: Optional scope for name_scope.

Returns: A `Tensor` representing the results of the pooling operation.

Raises: ValueError: if num_units is not multiple of number of features.

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