TancarFlow

TensorFlow API r1.4

tf.nn.moments

```
moments(
    x,
    axes,
    shift=None,
    name=None,
    keep_dims=False
)
```

Defined in tensorflow/python/ops/nn_impl.py.

See the guide: Neural Network > Normalization

Calculate the mean and variance of x.

The mean and variance are calculated by aggregating the contents of x across axes. If x is 1-D and axes = [0] this is just the mean and variance of a vector.

*

Note: shift is currently not used, the true mean is computed and used.

When using these moments for batch normalization (see tf.nn.batch_normalization):

- for so-called "global normalization", used with convolutional filters with shape [batch, height, width, depth], pass axes=[0, 1, 2].
- for simple batch normalization pass axes=[0] (batch only).

Args:

- x:A Tensor.
- axes: Array of ints. Axes along which to compute mean and variance.
- shift: Not used in the current implementation
- name: Name used to scope the operations that compute the moments.
- keep_dims: produce moments with the same dimensionality as the input.

Returns:

Two Tensor objects: mean and variance.

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