TancarFlow

TensorFlow API r1.4

tf.nn.dropout

```
dropout(
    x,
    keep_prob,
    noise_shape=None,
    seed=None,
    name=None
)
```

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

See the guides: Layers (contrib) > Higher level ops for building neural network layers, Neural Network > Activation Functions

Computes dropout.

With probability **keep_prob**, outputs the input element scaled up by 1 / **keep_prob**, otherwise outputs 0. The scaling is so that the expected sum is unchanged.

By default, each element is kept or dropped independently. If $noise_shape$ is specified, it must be broadcastable to the shape of x, and only dimensions with $noise_shape[i] == shape(x)[i]$ will make independent decisions. For example, if shape(x) = [k, 1, m, n] and $noise_shape = [k, 1, 1, n]$, each batch and channel component will be kept independently and each row and column will be kept or not kept together.

Args:

- x: A floating point tensor.
- keep_prob : A scalar Tensor with the same type as x. The probability that each element is kept.
- noise_shape: A 1-D Tensor of type int32, representing the shape for randomly generated keep/drop flags.
- seed : A Python integer. Used to create random seeds. See tf.set_random_seed for behavior.
- name: A name for this operation (optional).

Returns:

A Tensor of the same shape of x.

Raises:

ValueError: If keep_prob is not in (0, 1) or if x is not a floating point tensor.

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