TancarFlow

TensorFlow API r1.4

tf.contrib.nn.alpha_dropout

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

Defined in tensorflow/contrib/nn/python/ops/alpha_dropout.py.

Computes alpha dropout.

Alpha Dropout is a dropout that maintains the self-normalizing property. For an input with zero mean and unit standard deviation, the output of Alpha Dropout maintains the original mean and standard deviation of the input.

See Self-Normalizing Neural Networks

Args:

- x: A 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].

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