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]`.

Last updated November 2, 2017.

Support

Issue Tracker

Release Notes

Stack Overflow

English

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