TancarFlow

TensorFlow API r1.4

tf.nn.l2_normalize

```
12_normalize(
    x,
    dim,
    epsilon=1e-12,
    name=None
)
```

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

See the guide: Neural Network > Normalization

Normalizes along dimension dim using an L2 norm.

For a 1-D tensor with dim = 0, computes

```
output = x / sqrt(max(sum(x**2), epsilon))
```

For x with more dimensions, independently normalizes each 1-D slice along dimension dim.

Args:

- x: A Tensor.
- dim: Dimension along which to normalize. A scalar or a vector of integers.
- epsilon: A lower bound value for the norm. Will use sqrt(epsilon) as the divisor if norm < sqrt(epsilon).
- name: A name for this operation (optional).

Returns:

A **Tensor** with the same shape as x.

Except as otherwise noted, the content of this page is licensed under the Creative Commons Attribution 3.0 License, and code samples are licensed under the Apache 2.0 License. For details, see our Site Policies. Java is a registered trademark of Oracle and/or its affiliates.

Last updated November 2, 2017.

Stay Connected

Blog

GitHub

Twitter

Support

Issue Tracker

Release Notes
Stack Overflow

English
Terms | Privacy