#### TancarFlow

TensorFlow API r1.4

tf.contrib.losses.cosine\_distance

```
cosine_distance(
   predictions,
   labels=None,
   dim=None,
   weights=1.0,
   scope=None
)
```

Defined in tensorflow/contrib/losses/python/losses/loss\_ops.py.

See the guide: Losses (contrib) > Loss operations for use in neural networks.

Adds a cosine-distance loss to the training procedure. (deprecated)

THIS FUNCTION IS DEPRECATED. It will be removed after 2016-12-30. Instructions for updating: Use tf.losses.cosine\_distance instead.

Note that the function assumes that **predictions** and **labels** are already unit-normalized.

## Args:

- predictions: An arbitrary matrix.
- labels: A Tensor whose shape matches 'predictions'
- dim: The dimension along which the cosine distance is computed.
- weights: Coefficients for the loss a scalar, a tensor of shape [batch\_size] or a tensor whose shape matches
   predictions.
- scope: The scope for the operations performed in computing the loss.

### Returns:

A scalar Tensor representing the loss value.

### Raises:

ValueError: If predictions shape doesn't match labels shape, or weights is None.

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Last updated November 2, 2017.

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