TancarFlow

TensorFlow API r1.4

tf.contrib.losses.sparse_softmax_cross_entropy

```
sparse_softmax_cross_entropy(
    logits,
    labels,
    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.

Cross-entropy loss using tf.nn.sparse_softmax_cross_entropy_with_logits (deprecated)

THIS FUNCTION IS DEPRECATED. It will be removed after 2016-12-30. Instructions for updating: Use tf.losses.sparse_softmax_cross_entropy instead. Note that the order of the logits and labels arguments has been changed.

weights acts as a coefficient for the loss. If a scalar is provided, then the loss is simply scaled by the given value. If weights is a tensor of size [batch_size], then the loss weights apply to each corresponding sample.

Args:

- logits: [batch_size, num_classes] logits outputs of the network.
- labels: [batch_size, 1] or [batch_size] labels of dtype int32 or int64 in the range [0, num_classes).
- weights: Coefficients for the loss. The tensor must be a scalar or a tensor of shape [batch_size] or [batch_size, 1].
- scope: the scope for the operations performed in computing the loss.

Returns:

A scalar **Tensor** representing the mean loss value.

Raises:

• ValueError: If the shapes of logits, labels, and weights are incompatible, or if weights is None.

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