TancarFlow

TensorFlow API r1.4

tf.contrib.losses.sigmoid_cross_entropy

```
sigmoid_cross_entropy(
   logits,
   multi_class_labels,
   weights=1.0,
   label_smoothing=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.

Creates a cross-entropy loss using tf.nn.sigmoid_cross_entropy_with_logits. (deprecated)

THIS FUNCTION IS DEPRECATED. It will be removed after 2016-12-30. Instructions for updating: Use tf.losses.sigmoid_cross_entropy instead. Note that the order of the predictions 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.

If **label_smoothing** is nonzero, smooth the labels towards 1/2:

Args:

- logits: [batch_size, num_classes] logits outputs of the network.
- multi_class_labels: [batch_size, num_classes] labels in (0, 1).
- weights: Coefficients for the loss. The tensor must be a scalar, a tensor of shape [batch_size] or shape [batch_size, num_classes].
- label_smoothing: If greater than 0 then smooth the labels.
- scope: The scope for the operations performed in computing the loss.

Returns:

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

Raises:

• ValueError: If the shape of **logits** doesn't match that of **multi_class_labels** or if the shape of **weights** is invalid, or if **weights** is None.

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