TencorFlow

TensorFlow API r1.4

tf.contrib.nn.deprecated_flipped_softmax_cross_entropy_with_logits

```
deprecated_flipped_softmax_cross_entropy_with_logits(
    logits,
    labels,
    dim=-1,
    name=None
)
```

Defined in tensorflow/contrib/nn/python/ops/cross_entropy.py.

Computes softmax cross entropy between logits and labels.

This function diffs from tf.nn.softmax_cross_entropy_with_logits only in the argument order.

Measures the probability error in discrete classification tasks in which the classes are mutually exclusive (each entry is in exactly one class). For example, each CIFAR-10 image is labeled with one and only one label: an image can be a dog or a truck, but not both.

NOTE: While the classes are mutually exclusive, their probabilities need not be. All that is required is that each row of **labels** is a valid probability distribution. If they are not, the computation of the gradient will be incorrect.

If using exclusive **labels** (wherein one and only one class is true at a time), see sparse_softmax_cross_entropy_with_logits.

WARNING: This op expects unscaled logits, since it performs a **softmax** on **logits** internally for efficiency. Do not call this op with the output of **softmax**, as it will produce incorrect results.

logits and labels must have the same shape [batch_size, num_classes] and the same dtype (either float16,
float32, or float64).

Args:

- logits: Unscaled log probabilities.
- labels: Each row labels[i] must be a valid probability distribution.
- dim: The class dimension. Defaulted to -1 which is the last dimension.
- name: A name for the operation (optional).

Returns:

A 1-D Tensor of length batch_size of the same type as logits with the softmax cross entropy loss.

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