TancarFlow

TensorFlow API r1.4

tf.nn.log\_softmax

```
log_softmax(
    logits,
    dim=-1,
    name=None
)
```

Defined in tensorflow/python/ops/nn\_ops.py.

See the guide: Neural Network > Classification

Computes log softmax activations.

For each batch i and class j we have

```
logsoftmax = logits - log(reduce_sum(exp(logits), dim))
```

## Args:

- logits: A non-empty Tensor. Must be one of the following types: half, float32, float64.
- dim: The dimension softmax would be performed on. The default is -1 which indicates the last dimension.
- name: A name for the operation (optional).

## Returns:

A Tensor . Has the same type as logits . Same shape as logits .

## Raises:

• InvalidArgumentError: if logits is empty or dim is beyond the last dimension of logits.

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