

tf.losses.hinge_loss

```
hinge_loss(  
    labels,  
    logits,  
    weights=1.0,  
    scope=None,  
    loss_collection=tf.GraphKeys.LOSSES,  
    reduction=Reduction.SUM_BY_NONZERO_WEIGHTS  
)
```

Defined in [tensorflow/python/ops/losses/losses_impl.py](#).

Adds a hinge loss to the training procedure.

Args:

- **labels**: The ground truth output tensor. Its shape should match the shape of logits. The values of the tensor are expected to be 0.0 or 1.0.
- **logits**: The logits, a float tensor.
- **weights**: Optional **Tensor** whose rank is either 0, or the same rank as **labels**, and must be broadcastable to **labels** (i.e., all dimensions must be either **1**, or the same as the corresponding **losses** dimension).
- **scope**: The scope for the operations performed in computing the loss.
- **loss_collection**: collection to which the loss will be added.
- **reduction**: Type of reduction to apply to loss.

Returns:

Weighted loss float **Tensor**. If **reduction** is **NONE**, this has the same shape as **labels**; otherwise, it is scalar.

Raises:

- **ValueError**: If the shapes of **logits** and **labels** don't match or if **labels** or **logits** is None.

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