

tf.metrics.true_negatives_at_thresholds

```
true_negatives_at_thresholds(  
    labels,  
    predictions,  
    thresholds,  
    weights=None,  
    metrics_collections=None,  
    updates_collections=None,  
    name=None  
)
```

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

Computes true negatives at provided threshold values.

If `weights` is `None`, weights default to 1. Use weights of 0 to mask values.

Args:

- `labels`: A `Tensor` whose shape matches `predictions`. Will be cast to `bool`.
- `predictions`: A floating point `Tensor` of arbitrary shape and whose values are in the range `[0, 1]`.
- `thresholds`: A python list or tuple of float thresholds in `[0, 1]`.
- `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 `labels` dimension).
- `metrics_collections`: An optional list of collections that `true_negatives` should be added to.
- `updates_collections`: An optional list of collections that `update_op` should be added to.
- `name`: An optional variable_scope name.

Returns:

- `true_negatives`: A float `Tensor` of shape `[len(thresholds)]`.
- `update_op`: An operation that updates the `true_negatives` variable and returns its current value.

Raises:

- `ValueError`: If `predictions` and `labels` have mismatched shapes, or if `weights` is not `None` and its shape doesn't match `predictions`, or if either `metrics_collections` or `updates_collections` are not a list or tuple.

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