

tf.contrib.metrics.streaming_recall_at_thresholds

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

Defined in [tensorflow/contrib/metrics/python/ops/metric_ops.py](#).

See the guide: [Metrics \(contrib\)](#) > [Metric Ops](#)

Computes various recall values for different **thresholds** on **predictions**.

The **streaming_recall_at_thresholds** function creates four local variables, **true_positives**, **true_negatives**, **false_positives** and **false_negatives** for various values of thresholds. **recall[i]** is defined as the total weight of values in **predictions** above **thresholds[i]** whose corresponding entry in **labels** is **True**, divided by the total weight of **True** values in **labels** ($\text{true_positives}[i] / (\text{true_positives}[i] + \text{false_negatives}[i])$).

For estimation of the metric over a stream of data, the function creates an **update_op** operation that updates these variables and returns the **recall**.

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

Args:

- **predictions**: A floating point **Tensor** of arbitrary shape and whose values are in the range **[0, 1]**.
- **labels**: A **bool Tensor** whose shape matches **predictions**.
- **thresholds**: A python list or tuple of float thresholds in **[0, 1]**.
- **weights**: **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 **recall** 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:

- **recall**: A float **Tensor** of shape **[len(thresholds)]**.
- **update_op**: An operation that increments the **true_positives**, **true_negatives**, **false_positives** and **false_negatives** variables that are used in the computation of **recall**.

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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