

tf.contrib.metrics.streaming_percentage_less

```
streaming_percentage_less(  
    values,  
    threshold,  
    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 the percentage of values less than the given threshold.

The `streaming_percentage_less` function creates two local variables, `total` and `count` that are used to compute the percentage of `values` that fall below `threshold`. This rate is weighted by `weights`, and it is ultimately returned as `percentage` which is an idempotent operation that simply divides `total` by `count`.

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

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

Args:

- `values`: A numeric `Tensor` of arbitrary size.
- `threshold`: A scalar threshold.
- `weights`: An optional `Tensor` whose shape is broadcastable to `values`.
- `metrics_collections`: An optional list of collections that the metric value variable should be added to.
- `updates_collections`: An optional list of collections that the metric update ops should be added to.
- `name`: An optional variable_scope name.

Returns:

- `percentage`: A `Tensor` representing the current mean, the value of `total` divided by `count`.
- `update_op`: An operation that increments the `total` and `count` variables appropriately.

Raises:

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

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