## TancarFlow

TensorFlow API r1.4

tf.metrics.percentage\_below

```
percentage_below(
   values,
   threshold,
   weights=None,
   metrics_collections=None,
   updates_collections=None,
   name=None
)
```

Defined in tensorflow/python/ops/metrics\_impl.py.

Computes the percentage of values less than the given threshold.

The **percentage\_below** 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: Optional **Tensor** whose rank is either 0, or the same rank as **values**, and must be broadcastable to **values** (i.e., all dimensions must be either 1, or the same as the corresponding **values** dimension).
- 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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