TancarFlow

TensorFlow API r1.4

tf.summary.histogram

```
histogram(
    name,
    values,
    collections=None,
    family=None
)
```

Defined in tensorflow/python/summary.py.

See the guide: Summary Operations > Generation of Summaries

Outputs a **Summary** protocol buffer with a histogram.

Adding a histogram summary makes it possible to visualize your data's distribution in TensorBoard. You can see a detailed explanation of the TensorBoard histogram dashboard here.

The generated Summary has one summary value containing a histogram for values .

This op reports an InvalidArgument error if any value is not finite.

Args:

- name: A name for the generated node. Will also serve as a series name in TensorBoard.
- values: A real numeric Tensor. Any shape. Values to use to build the histogram.
- collections: Optional list of graph collections keys. The new summary op is added to these collections. Defaults to [GraphKeys.SUMMARIES].
- family: Optional; if provided, used as the prefix of the summary tag name, which controls the tab name used for display on Tensorboard.

Returns:

A scalar **Tensor** of type **string**. The serialized **Summary** protocol buffer.

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