### TancarFlow

TensorFlow API r1.4

tf.nn.top\_k

```
top_k(
   input,
   k=1,
   sorted=True,
   name=None
)
```

Defined in tensorflow/python/ops/nn\_ops.py.

See the guide: Neural Network > Evaluation

Finds values and indices of the k largest entries for the last dimension.

If the input is a vector (rank-1), finds the k largest entries in the vector and outputs their values and indices as vectors. Thus values[j] is the j-th largest entry in input, and its index is indices[j].

For matrices (resp. higher rank input), computes the top **k** entries in each row (resp. vector along the last dimension). Thus,

```
values.shape = indices.shape = input.shape[:-1] + [k]
```

If two elements are equal, the lower-index element appears first.

## Args:

- input: 1-D or higher **Tensor** with last dimension at least k.
- k: 0-D int32 Tensor. Number of top elements to look for along the last dimension (along each row for matrices).
- sorted: If true the resulting k elements will be sorted by the values in descending order.
- name: Optional name for the operation.

### Returns:

- values: The k largest elements along each last dimensional slice.
- indices: The indices of values within the last dimension of input.

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