TencorFlow

TensorFlow API r1.4

tf.nn.in_top_k

```
in_top_k(
    predictions,
    targets,
    k,
    name=None
)
```

Defined in tensorflow/python/ops/nn_ops.py.

See the guide: Neural Network > Evaluation

Says whether the targets are in the top K predictions.

This outputs a **batch_size** bool array, an entry **out[i]** is **true** if the prediction for the target class is among the top **k** predictions among all predictions for example **i**. Note that the behavior of **InTopK** differs from the **TopK** op in its handling of ties; if multiple classes have the same prediction value and straddle the top-**k** boundary, all of those classes are considered to be in the top **k**.

More formally, let

 $predictions_i$ be the predictions for all classes for example i, $targets_i$ be the target class for example i, out_i be the output for example i,

 $out_i = predictions_{i,targets_i} \in TopKIncludingTies(predictions_i)$

Args:

- predictions: A Tensor of type float32. A batch_size x classes tensor.
- targets: A Tensor. Must be one of the following types: int32, int64. A batch_size vector of class ids.
- k: An int. Number of top elements to look at for computing precision.
- name: A name for the operation (optional).

Returns:

A Tensor of type bool. Computed Precision at k as a bool Tensor.

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