TancarFlow

TensorFlow API r1.4

tf.sparse_mask

```
sparse_mask(
    a,
    mask_indices,
    name=None
)
```

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

See the guide: Variables > Sparse Variable Updates

Masks elements of IndexedSlices.

Given an **IndexedSlices** instance **a**, returns another **IndexedSlices** that contains a subset of the slices of **a**. Only the slices at indices not specified in **mask_indices** are returned.

This is useful when you need to extract a subset of slices in an IndexedSlices object.

For example:

```
# `a` contains slices at indices [12, 26, 37, 45] from a large tensor
# with shape [1000, 10]
a.indices # [12, 26, 37, 45]
tf.shape(a.values) # [4, 10]

# `b` will be the subset of `a` slices at its second and third indices, so
# we want to mask its first and last indices (which are at absolute
# indices 12, 45)
b = tf.sparse_mask(a, [12, 45])

b.indices # [26, 37]
tf.shape(b.values) # [2, 10]
```

Args:

- a: An IndexedSlices instance.
- mask_indices: Indices of elements to mask.
- name: A name for the operation (optional).

Returns:

The masked IndexedSlices instance.

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