TensorFlow

TensorFlow API r1.4

tf.sparse_transpose

```
sparse_transpose(
    sp_input,
    perm=None,
    name=None
)
```

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

See the guide: Sparse Tensors > Manipulation

Transposes a SparseTensor

The returned tensor's dimension i will correspond to the input dimension **perm[i]**. If **perm** is not given, it is set to (n-1...0), where n is the rank of the input tensor. Hence by default, this operation performs a regular matrix transpose on 2-D input Tensors.

For example, if sp_input has shape [4, 5] and indices / values:

```
[0, 3]: b
[0, 1]: a
[3, 1]: d
[2, 0]: c
```

then the output will be a SparseTensor of shape [5, 4] and indices / values:

```
[0, 2]: c
[1, 0]: a
[1, 3]: d
[3, 0]: b
```

Args:

- sp_input: The input SparseTensor.
- perm: A permutation of the dimensions of **sp_input**.
- name: A name prefix for the returned tensors (optional)

Returns:

A transposed SparseTensor.

Raises:

• TypeError: If sp_input is not a SparseTensor.

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