TencorFlow

TensorFlow API r1.4

tf.sparse_tensor_to_dense

```
sparse_tensor_to_dense(
    sp_input,
    default_value=0,
    validate_indices=True,
    name=None
)
```

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

See the guide: Sparse Tensors > Conversion

Converts a **SparseTensor** into a dense tensor.

This op is a convenience wrapper around sparse_to_dense for SparseTensor s.

For example, if sp_input has shape [3, 5] and non-empty string values:

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

and default_value is x, then the output will be a dense [3, 5] string tensor with values:

```
[[x a x b x]
[x x x x x]
[c x x x x]]
```

Indices must be without repeats. This is only tested if validate_indices is True.

Args:

- sp_input: The input SparseTensor.
- default_value: Scalar value to set for indices not specified in sp_input. Defaults to zero.
- validate_indices: A boolean value. If **True**, indices are checked to make sure they are sorted in lexicographic order and that there are no repeats.
- name: A name prefix for the returned tensors (optional).

Returns:

A dense tensor with shape **sp_input.dense_shape** and values specified by the non-empty values in **sp_input**. Indices not in **sp_input** are assigned **default_value**.

Raises:

• TypeError: If sp_input is not a SparseTensor.

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