

## tf.sparse\_fill\_empty\_rows

```
sparse_fill_empty_rows(  
    sp_input,  
    default_value,  
    name=None  
)
```

Defined in [tensorflow/python/ops/sparse\\_ops.py](#).

See the guide: [Sparse Tensors > Manipulation](#)

Fills empty rows in the input 2-D **SparseTensor** with a default value.

This op adds entries with the specified **default\_value** at index **[row, 0]** for any row in the input that does not already have a value.

For example, suppose **sp\_input** has shape **[5, 6]** and non-empty values:

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

Rows 1 and 4 are empty, so the output will be of shape **[5, 6]** with values:

```
[0, 1]: a  
[0, 3]: b  
[1, 0]: default_value  
[2, 0]: c  
[3, 1]: d  
[4, 0]: default_value
```

Note that the input may have empty columns at the end, with no effect on this op.

The output **SparseTensor** will be in row-major order and will have the same shape as the input.

This op also returns an indicator vector such that

```
empty_row_indicator[i] = True iff row i was an empty row.
```

### Args:

- sp\_input**: A **SparseTensor** with shape **[N, M]**.
- default\_value**: The value to fill for empty rows, with the same type as **sp\_input**.
- name**: A name prefix for the returned tensors (optional)

### Returns:

- sp\_ordered\_output**: A **SparseTensor** with shape **[N, M]**, and with all empty rows filled in with **default\_value**.
- empty\_row\_indicator**: A bool vector of length **N** indicating whether each input row was empty.

Raises:

- `TypeError : If sp_input is not a SparseTensor .`

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