### TancarFlow

TensorFlow API r1.4

tf.sparse\_reduce\_sum\_sparse

```
sparse_reduce_sum_sparse(
    sp_input,
    axis=None,
    keep_dims=False,
    reduction_axes=None
)
```

Defined in tensorflow/python/ops/sparse\_ops.py.

See the guide: Sparse Tensors > Reduction

Computes the sum of elements across dimensions of a SparseTensor.

This Op takes a SparseTensor and is the sparse counterpart to **tf.reduce\_sum()**. In contrast to SparseReduceSum, this Op returns a SparseTensor.

Reduces **sp\_input** along the dimensions given in **reduction\_axes**. Unless **keep\_dims** is true, the rank of the tensor is reduced by 1 for each entry in **reduction\_axes**. If **keep\_dims** is true, the reduced dimensions are retained with length 1.

If **reduction\_axes** has no entries, all dimensions are reduced, and a tensor with a single element is returned. Additionally, the axes can be negative, which are interpreted according to the indexing rules in Python.

# Args:

- sp\_input: The SparseTensor to reduce. Should have numeric type.
- axis: The dimensions to reduce; list or scalar. If None (the default), reduces all dimensions.
- keep\_dims: If true, retain reduced dimensions with length 1.
- reduction\_axes: Deprecated name of axis

## Returns:

The reduced SparseTensor.

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