TancarFlow

TensorFlow API r1.4

tf.contrib.layers.sparse\_column\_with\_keys

```
sparse_column_with_keys(
    column_name,
    keys,
    default_value=-1,
    combiner='sum',
    dtype=tf.string
)
```

Defined in tensorflow/contrib/layers/python/layers/feature\_column.py.

See the guide: Layers (contrib) > Feature columns

Creates a \_SparseColumn with keys.

Look up logic is as follows: lookup\_id = index\_of\_feature\_in\_keys if feature in keys else default\_value

## Args:

- column\_name: A string defining sparse column name.
- keys: A list or tuple defining vocabulary. Must be castable to dtype.
- default\_value: The value to use for out-of-vocabulary feature values. Default is -1.
- combiner: A string specifying how to reduce if the sparse column is multivalent. Currently "mean", "sqrtn" and "sum" are supported, with "sum" the default. "sqrtn" often achieves good accuracy, in particular with bag-of-words columns.
  - · "sum": do not normalize features in the column
  - "mean": do l1 normalization on features in the column
  - "sqrtn": do l2 normalization on features in the column For more information: tf.embedding\_lookup\_sparse.
- dtype: Type of features. Only integer and string are supported.

## Returns:

A \_SparseColumnKeys with keys configuration.

Except as otherwise noted, the content of this page is licensed under the Creative Commons Attribution 3.0 License, and code samples are licensed under the Apache 2.0 License. For details, see our Site Policies. Java is a registered trademark of Oracle and/or its affiliates.

Last updated November 2, 2017.

## **Stay Connected**

Blog

GitHub

Twitter

## Support Issue Tracker Release Notes Stack Overflow English Terms | Privacy