TensorFlow   API r1.4

tf.feature_column.bucketized_column

```
bucketized_column(
    source_column,
    boundaries
)
```

Defined in `tensorflow/python/feature_column/feature_column.py` .

Represents discretized dense input.

Buckets include the left boundary, and exclude the right boundary. Namely, `boundaries=[0., 1., 2.]` generates buckets `(-inf, 0.)` , `[0., 1.)` , `[1., 2.)` , and `[2., +inf)` .

For example, if the inputs are

```
boundaries = [0, 10, 100]
input tensor = [[-5, 10000]
                [150,   10]
                [5,    100]]
```

then the output will be

```
output = [[0, 3]
          [3, 2]
          [1, 3]]
```

Example:

```
price = numeric_column('price')
bucketized_price = bucketized_column(price, boundaries=[...])
columns = [bucketized_price, ...]
features = tf.parse_example(..., features=make_parse_example_spec(columns))
linear_prediction = linear_model(features, columns)

# or
columns = [bucketized_price, ...]
features = tf.parse_example(..., features=make_parse_example_spec(columns))
dense_tensor = input_layer(features, columns)
```

`bucketized_column` can also be crossed with another categorical column using `crossed_column` :

```
price = numeric_column('price')
# bucketized_column converts numerical feature to a categorical one.
bucketized_price = bucketized_column(price, boundaries=[...])
# 'keywords' is a string feature.
price_x_keywords = crossed_column([bucketized_price, 'keywords'], 50K)
columns = [price_x_keywords, ...]
features = tf.parse_example(..., features=make_parse_example_spec(columns))
linear_prediction = linear_model(features, columns)
```

Args:

- `source_column` : A one-dimensional dense column which is generated with `numeric_column` .
- `boundaries` : A sorted list or tuple of floats specifying the boundaries.

Returns:

A `_BucketizedColumn` .

Raises:

- `ValueError` : If `source_column` is not a numeric column, or if it is not one-dimensional.
- `ValueError` : If `boundaries` is not a sorted list or tuple.

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