TancarFlow

TensorFlow API r1.4

tf.constant

```
constant(
   value,
   dtype=None,
   shape=None,
   name='Const',
   verify_shape=False
)
```

Defined in tensorflow/python/framework/constant_op.py.

See the guide: Constants, Sequences, and Random Values > Constant Value Tensors

Creates a constant tensor.

The resulting tensor is populated with values of type **dtype**, as specified by arguments **value** and (optionally) **shape** (see examples below).

The argument value can be a constant value, or a list of values of type dtype. If value is a list, then the length of the list must be less than or equal to the number of elements implied by the shape argument (if specified). In the case where the list length is less than the number of elements specified by shape, the last element in the list will be used to fill the remaining entries.

The argument **shape** is optional. If present, it specifies the dimensions of the resulting tensor. If not present, the shape of **value** is used.

If the argument dtype is not specified, then the type is inferred from the type of value.

For example:

Args:

- value: A constant value (or list) of output type dtype.
- dtype: The type of the elements of the resulting tensor.
- shape: Optional dimensions of resulting tensor.
- name: Optional name for the tensor.
- verify_shape: Boolean that enables verification of a shape of values.

Returns:

A Constant Tensor.

Raises:

• TypeError: if shape is incorrectly specified or unsupported.

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Last updated November 2, 2017.

