#### TancarFlow

TensorFlow API r1.4

tf.nn.bias\_add

```
bias_add(
    value,
    bias,
    data_format=None,
    name=None
)
```

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

See the guide: Neural Network > Activation Functions

Adds bias to value.

This is (mostly) a special case of **tf.add** where **bias** is restricted to 1-D. Broadcasting is supported, so **value** may have any number of dimensions. Unlike **tf.add**, the type of **bias** is allowed to differ from **value** in the case where both types are quantized.

# Args:

- value: A Tensor with type float, double, int64, int32, uint8, int16, int8, complex64, or complex128.
- bias: A 1-D **Tensor** with size matching the last dimension of **value**. Must be the same type as **value** unless **value** is a quantized type, in which case a different quantized type may be used.
- data\_format : A string. 'NHWC' and 'NCHW' are supported.
- name: A name for the operation (optional).

### Returns:

A Tensor with the same type as value.

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Last updated November 2, 2017.

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