#### TancarFlow

TensorFlow API r1.4

# tf.fake\_quant\_with\_min\_max\_vars

```
fake_quant_with_min_max_vars(
    inputs,
    min,
    max,
    num_bits=8,
    narrow_range=False,
    name=None
)
```

Defined in tensorflow/python/ops/gen\_array\_ops.py.

See the guide: Tensor Transformations > Fake quantization

Fake-quantize the 'inputs' tensor of type float via global float scalars min

and max to 'outputs' tensor of same shape as inputs.

[min; max] define the clamping range for the inputs data. inputs values are quantized into the quantization range ([0; 2^num\_bits - 1] when narrow\_range is false and [1; 2^num\_bits - 1] when it is true) and then de-quantized and output as floats in [min; max] interval. num\_bits is the bitwidth of the quantization; between 2 and 8, inclusive.

This operation has a gradient and thus allows for training min and max values.

# Args:

- inputs: A Tensor of type float32.
- min: A Tensor of type float32.
- max: A Tensor of type float32.
- num\_bits: An optional int. Defaults to 8.
- narrow\_range: An optional bool. Defaults to False.
- name: A name for the operation (optional).

## Returns:

A Tensor of type float32.

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