

tf.nn.quantized_relu_x

```
quantized_relu_x(  
    features,  
    max_value,  
    min_features,  
    max_features,  
    out_type=tf.qint8,  
    name=None  
)
```

Defined in `tensorflow/python/ops/gen_nn_ops.py`.

See the guide: [Neural Network > Candidate Sampling](#)

Computes Quantized Rectified Linear X: `min(max(features, 0), max_value)`

Args:

- `features`: A `Tensor`. Must be one of the following types: `qint8`, `quint8`, `qint16`, `quint16`, `qint32`.
- `max_value`: A `Tensor` of type `float32`.
- `min_features`: A `Tensor` of type `float32`. The float value that the lowest quantized value represents.
- `max_features`: A `Tensor` of type `float32`. The float value that the highest quantized value represents.
- `out_type`: An optional `tf.DType` from: `tf.qint8`, `tf.quint8`, `tf.qint16`, `tf.quint16`, `tf.qint32`. Defaults to `tf.qint8`.
- `name`: A name for the operation (optional).

Returns:

A tuple of `Tensor` objects (activations, min_activations, max_activations).

- `activations`: A `Tensor` of type `out_type`. Has the same output shape as "features".
- `min_activations`: A `Tensor` of type `float32`. The float value that the lowest quantized value represents.
- `max_activations`: A `Tensor` of type `float32`. The float value that the highest quantized value represents.

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