# tensor.qlinear leakyrelu

...

Copy fnqlinear\_leakyrelu(self:@Tensor, a\_scale:@Tensor, a\_zero\_point:@Tensor, alpha:T)->Tensor::;

...

Applies the Leaky Relu operator to a quantized Tensor

QLinar LeakyRelu takes as input a quantized Tensor, its scale and zero point and an scalar alpha, and produces one output data (a quantized Tensor) where the function f(x) = alpha \* x for x < 0, f(x) = x for x >= 0, is applied to the data tensor elementwise. The quantization formula is  $y = saturate((x / y_scale) + y_zero_point)$ . Scale and zero point must have same shape and the same type. They must be either scalar (per tensor) or N-D tensor (per row for 'a' and per column for 'b'). Scalar refers to per tensor quantization whereas N-D refers to per row or per column quantization.

#### Args

- self
- (@Tensor
- ) The first tensor to be multiplied (a).
- a\_scale
- (@Tensor
- ) Scale for inputa
- .
- a\_zero\_point
- (@Tensor
- ) Zero point for inputa
- .
- alpha
- (T)
- ) The factor multiplied to negative elements.

.

#### Returns

A newTensor, containing result of the Leaky Relu.

return=a .qlinear\_leakyrelu(@a\_scale,@a\_zero\_point, alpha);}

[[-118,-118,-118], [10,10,10]]

#### Type Constraints

 $u32\ tensor,\ not\ supported.\ fp8x23wide\ tensor,\ not\ supported.\ fp16x16wide\ tensor,\ not\ supported.$ 

## Example

• • • •

### Copy

## Previous tensor.qlinear\_concat Next tensor.nonzero

Last updated1 month ago