tensor.binarizer

```

Copy fnbinarizer(self:@Tensor, threshold:Option)->Tensor

```

Maps the values of a tensor element-wise to 0 or 1 based on the comparison against a threshold value.

Args

- self
- (@Tensor
-) - The input tensor to be binarized.
- threshold
- (Option
-) - The threshold for the binarization operation.
-

Returns

A newTensor of the same shape as the input tensor with binarized values.

Type Constraints

Constrain input and output types to fixed point numbers.

Examples

```

Copy usecore::array::{ArrayTrait,SpanTrait};

useorion::operators::tensor::{TensorTrait,Tensor,FP8x23Tensor}; useorion::numbers::{FixedTrait,FP8x23};

fnbinarizer_example()->Tensor { lettensor=TensorTrait:::new( shape:array![2,2].span(), data:array![ FixedTrait::new(0,false), FixedTrait::new(1,false), FixedTrait::new(2,false), FixedTrait::new(3,false) ] .span(), ); letthreshold=Option::Some(FixedTrait::new(1,false))

returntensor.binarizer(@tensor, threshold); }

                [0,0,8388608,8388608] // The fixed point representation of [0,0,1,1]

```

Previous tensor.array_feature_extractor Next tensor.reduce_sum_square

Last updated3 months ago