tensor.onehot

```

Copy fnonehot(self:@Tensor, depth:usize, axis:Option, values:Span)->Tensor;

```

Produces one-hot tensor based on input.

Args

- self
- (@Tensor
-) - The input tensor.
- depth
- (usize
-) - Scalar or Rank 1 tensor containing exactly one element, specifying the number of classes in one-hot tensor.
- axis
- (Option
-) - Axis along which one-hot representation in added. Default: axis=-1.
- values
- (Span
-) - Rank 1 tensor containing exactly two elements, in the format [off_value, on_value]
-

Panics

- Panics if values is not equal to 2.
-

Returns

A newTensor one-hot encode of the input tensor.

Type Constraints

Constrain input and output types to fixed point tensors.

Example

```

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

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

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

returntensor.onehot(depth:3, axis:Option::None(()), values:array![0,1].span()); }

                    [[1.0.0.] [0.1.0.] [0.0.1.]]

```

Previous tensor.xor Next tensor.slice

Last updated3 months ago