tensor.reduce_l2

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```

Copy fnreduce_l2(self:@Tensor, axis:usize, keepdims:bool)->Tensor;

```

Computes the L2 norm of the input tensor's elements along the provided axes.

Args

- self
- (@Tensor
-) - The input tensor.
- axis
- (usize
-) - The dimension to reduce.
- keepdims
- (bool
-) - If true, retains reduced dimensions with length 1.
-

Panics

- Panics if axis is not in the range of the input tensor's dimensions.
-

Returns

A newTensor instance with the specified axis reduced by summing its elements.

Examples

```

Copy usecore::array::{ArrayTrait,SpanTrait}; useorion::operators::tensor::{TensorTrait,Tensor,U32Tensor};

fnreduce_l2_example()->Tensor {

letmutshape=ArrayTrait::::new(); shape.append(2); shape.append(2); letmutdata=ArrayTrait::new();
data.append(FixedTrait::new_unscaled(1,false)); data.append(FixedTrait::new_unscaled(2,false));
data.append(FixedTrait::new_unscaled(3,false)); data.append(FixedTrait::new_unscaled(5,false));
lettensor=TensorTrait::::new(shape.span(), data.span());

Wecan call reduce_l2 functionasfollows. returntensor.reduce_l2(axis:1, keepdims:true); }

                [[0x11e3779,0x2ea5ca1]]

```

Previous tensor.reduce_sum_square Next tensor.reduce_l1

Last updated1 month ago