

tensor.reduce_prod

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

...

Reduces a tensor by multiplying its elements along a specified axis.

Args

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

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

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

Examples

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

useorion::operators::tensor::{TensorTrait,Tensor,U32Tensor};

fnreduce_prod_example()->Tensor { lettensor=TensorTrait::new(shape:array![2,2,2].span(), data:array![0,1,2,3,4,5,6,7].span(),);

// We can call reduce_prod function as follows. returntensor.reduce_prod(axis:0, keepdims:false); }

[[0,5],[12,21]]

...

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Last updated3 months ago