tensor.argmin

```

Copy fnargmin(self:@Tensor, axis:usize, keepdims:Option, select_last_index:Option)->Tensor;

```

Returns the index of the minimum value along the specified axis.

Args

- self
- (@Tensor
-) - The input tensor.
- axis
- (usize
-) - The axis along which to compute the argmin.
- keepdims
- (Option
-) - If true, retains reduced dimensions with length 1. Defaults to true.
- select_last_index
- (Option
-) - If true, the index of the last occurrence of the minimum value is returned. Defaults to false.
-

Panics

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

Returns

A newTensor instance containing the indices of the minimum values along the specified axis.

Examples

Case 1: argmin with default parameters

```

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

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

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

// We can call argmin function as follows. returntensor.argmin(axis:2, keepdims:Option::None(()),
select_last_index:Option::None(())); }

                    [[[0,0],[0,0]]]

```

Case 2: argmin with keepdims set to false

```

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

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

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

// We can call argmin function as follows. returntensor .argmin(axis:2, keepdims:Option::Some(false),
select_last_index:Option::None(())); }

                    [[0,0],[0,0]]

```

Case 3: argmin with select_last_index set to true

```

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

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

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

// We can call argmin function as follows. returntensor .argmin(axis:2, keepdims:Option::None(()),
select_last_index:Option::Some(true)); }

                    [[[0,0],[1,1]]]

```

Previous tensor.argmax Next tensor.matmul

Last updated3 months ago