

tensor.gather_elements

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Copy fngather_elements(self:@Tensor, indices:Tensor, axis:Option)->Tensor;

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GatherElements is an indexing operation that produces its output by indexing into the input data tensor at index positions determined by elements of the indices tensor.

Args

- self
- (@Tensor
-) - The input tensor.
- indices
- (Tensor
-) - Tensor of indices.
- axis
- (Option
-) - Axis to gather_elements on. Default: axis=0.
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Panics

- Panics if index values are not within bounds [-s, s-1] along axis of size s.
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Returns

A newTensor .

Example

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

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

fngather_elements_example()->Tensor { lettensor=TensorTrait::new(shape:array![3,3].span(), data:array![[1,2,3],[4,5,6],[7,8,9]].span(),); letindices=TensorTrait::new(shape:array![1,2,0].span(), data:array![2,0,0].span(),);

returntensor.gather_elements(indices:indices, axis:Option::None(()),); }

[[4.8.3.] [7.2.3.]]

...

[Previous tensor.reduce_prod](#) [Next tensor.gather_nd](#)

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