# tensor.scatter

```

Copy fnscatter(self:@Tensor, updates:Tensor, indices:Tensor, axis:Option, reduction:Option)->Tensor;

```

Produces a copy of input data, and updates value to values specified by updates at specific index positions specified by indices.

Args

- self
- (@Tensor
- ) - The input tensor.
- updates
- (Tensor
- ) - The updates tensor.
- indices
- (Tensor
- ) - Tensor of indices.
- axis
- (Option
- ) - Axis to scatter on. Default: axis=0.
- reduction
- (Option
- ) - Reduction operation. Default: reduction='none'.
-

Panics

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

Returns

A newTensor .

Example

```

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

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

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

returntensor.scatter( updates:updates indices:indices, axis:Option::None(()), reduction:Option::None(()), ); }

                [[1,8,0,0,0], [7,2,9,0,0], [4,0,3,0,0]]

```

Previous tensor.round Next tensor.array_feature_extractor

Last updated3 months ago