tensor.xor

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Copy fnxor(self:@Tensor, other:@Tensor)->Tensor; Computes the logical XOR of two tensors element-wise. The input tensors must have either: · Exactly the same shape • The same number of dimensions and the length of each dimension is either a common length or 1. Args self (@Tensor) - The first tensor to be compared (@Tensor) - The second tensor to be compared **Panics** · Panics if the shapes are not equal or broadcastable Returns A newTensor of booleans (0 or 1) with the same shape as the broadcasted inputs. Examples Case 1: Compare tensors with same shape Copy usecore::array::{ArrayTrait,SpanTrait}; useorion::operators::tensor::{TensorTrait,Tensor,U32Tensor}; fnxor_example()->Tensor { lettensor_1=TensorTrait::::new(shape:array![3,3].span(), data:array![0,1,2,3,4,5,6,7,8].span(),); lettensor_2=TensorTrait::::new(shape:array![3,3].span(), data:array![0,1,2,3,4,5,9,1,5].span(),); returntensor_1.xor(@tensor_2); } [0,0,0,0,0,0,0,0,0]Case 2: Compare tensors with different shapes Copy usecore::array::{ArrayTrait,SpanTrait}; useorion::operators::tensor::{TensorTrait,Tensor,U32Tensor}; fnxor_example()->Tensor { lettensor_1=TensorTrait::::new(shape:array![3,3].span(), data:array![0,1,2,3,4,5,6,7,8].span(),);

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

returntensor_1.xor(@tensor_2); }

lettensor_2=TensorTrait::::new(shape:array![1,3].span(), data:array![0,1,2].span(),);

...

Previous tensor.or Next tensor.onehot

Last updated3 months ago