tensor.atan

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```

Copy fnatan(self:@Tensor)->Tensor;

```

Computes the arctangent (inverse of tangent) of all elements of the input tensor.

Args

- self
- (@Tensor
-) - The input tensor.
-

Returns

A newTensor of the same shape as the input tensor with the arctangent (inverse of tangent) value of all elements in the input tensor.

Type Constraints

Constrain input and output types to fixed point tensors.

Example

```

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

useorion::operators::tensor::{TensorTrait,Tensor,FP8x23Tensor}; useorion::numbers::{FixedTrait,FP8x23};

fnatan_example()->Tensor { lettensor=TensorTrait:::new( shape:array![3].span(), data:array![
FixedTrait::new_unscaled(0,false), FixedTrait::new_unscaled(1,false), FixedTrait::new_unscaled(2,false), ] .span(), );

returntensor.atan(); }

                [0,6588397,9287028] // The fixed point representation of // [0,0.7853...,1.1071...]

```

Previous tensor.tanh Next tensor.acos

Last updated3 months ago