TancarFlow

TensorFlow API r1.4

tf.matrix_determinant

Contents

Aliases:

Aliases:

- tf.linalg.det
- tf.matrix_determinant

```
matrix_determinant(
   input,
   name=None
)
```

Defined in tensorflow/python/ops/gen_linalg_ops.py.

See the guide: Math > Matrix Math Functions

Computes the determinant of one or more square matrices.

The input is a tensor of shape [..., M, M] whose inner-most 2 dimensions form square matrices. The output is a tensor containing the determinants for all input submatrices [..., :, :].

Args:

- input: A **Tensor**. Must be one of the following types: **float32**, **float64**, **complex64**, **complex128**. Shape is [..., M, M].
- name: A name for the operation (optional).

Returns:

A **Tensor** . Has the same type as **input** . Shape is [...] .

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