TancarFlow

TensorFlow API r1.4

tf.linalg.logdet

```
logdet(
   matrix,
   name=None
)
```

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

Computes log of the determinant of a hermitian positive definite matrix.

```
# Compute the determinant of a matrix while reducing the chance of over- or underflow: A = \dots \text{ # shape 10 x 10} \\ \det = \text{tf.exp(tf.logdet(A))} \text{ # scalar}
```

Args:

- matrix: A Tensor. Must be float32, float64, complex64, or complex128 with shape [..., M, M].
- name: A name to give this **Op**. Defaults to **logdet**.

Returns:

The natural log of the determinant of matrix.

numpy compatibility

Equivalent to numpy.linalg.slogdet, although no sign is returned since only hermitian positive definite matrices are supported.

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