TancarFlow

TensorFlow API r1.4

Module: tf.linalg

Contents Functions

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

Public API for tf.linalg namespace.

Functions

```
band_part(...): Copy a tensor setting everything outside a central band in each innermost matrix
cholesky(...): Computes the Cholesky decomposition of one or more square matrices.
cholesky_solve(...): Solves systems of linear eqns A X = RHS, given Cholesky factorizations.
det(...): Computes the determinant of one or more square matrices.
diag(...): Returns a batched diagonal tensor with a given batched diagonal values.
diag_part(...): Returns the batched diagonal part of a batched tensor.
eigh(...): Computes the eigen decomposition of a batch of self-adjoint matrices.
eigvalsh(...): Computes the eigenvalues of one or more self-adjoint matrices.
einsum(...): A generalized contraction between tensors of arbitrary dimension.
eye(...): Construct an identity matrix, or a batch of matrices.
inv(...): Computes the inverse of one or more square invertible matrices or their
logdet(...): Computes log of the determinant of a hermitian positive definite matrix.
1stsq(...): Solves one or more linear least-squares problems.
norm(...): Computes the norm of vectors, matrices, and tensors.
qr(...): Computes the QR decompositions of one or more matrices.
set_diag(...): Returns a batched matrix tensor with new batched diagonal values.
slogdet(...): Computes the sign and the log of the absolute value of the determinant of
solve(...): Solves systems of linear equations.
svd(...): Computes the singular value decompositions of one or more matrices.
tensordot(...): Tensor contraction of a and b along specified axes.
trace(...): Compute the trace of a tensor x.
transpose(...): Transposes last two dimensions of tensor a.
```

triangular_solve(...): Solves systems of linear equations with upper or lower triangular matrices by

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