PyTorch Notes

torch.mm(input, mat2, \*, out=None) → Tensor

Performs a matrix multiplication of the matrices input and mat2.

If input is a (n×m) tensor, mat2 is a (m×p) tensor, out will be a (n×p) tensor.

torch.linalg.norm:

Computes a vector or matrix norm.

Note: linalg is short for linear algebra.

torch.diag:

If input is a vector (1-D tensor), then returns a 2-D square tensor with the elements of input as the diagonal.

If input is a matrix (2-D tensor), then returns a 1-D tensor with the diagonal elements of input.

torch.unsqueeze():

Returns a new tensor with a dimension of size one inserted at the specified position.

torch.squeeze():

Returns a tensor with all specified dimensions of input of size 1 removed.

torch.cat():

Concatenates the given sequence of seq tensors in the given dimension. All tensors must either have the same shape (except in the concatenating dimension) or be empty.