Homework –
Performance study of (a small part of) Neural Network

- Estimate time (computation) and space (memory) complexity of a convolution layer (Conv2d-2) of MNIST CNN
- Code: https://github.com/pytorch/examples/tree/master/mnist
- Image data will be downloaded automatically

1. Pen and paper method to estimate the complexity
2. Run and measure the complexity
3. Try diff batch sizes, draw a chart (x axis: batch size, y axis: flops and/or mem)
4. Discuss the difference between estimated and measured results
5. Bonus: try with diff shape/dimension of Conv2d-2 layer and report the results
6. Due on Mar. 16, 2024 at 11:59pm