Please submit your solutions for this assignment on Canvas by **Friday, Dec. 9th**.

You will now build a convolutional model to solve the digit classification problem.

The minimal model that you should build is the single meta-layer model found in Exercise 9 on this DL@DU page.

Challenge 1: Can you change something about the meta-layer — the kernel size, maybe?

Challenge 2: Implement the two meta-layer model in Exercise 10.

Challenge 3: Cross-validate train a model. Here, you would want to cross-validate train on say 90% of the data, and test on 10%.

Whichever model you end up training, please include the following in your solutions for this assignment:

- Your entire program and its output, where your output contains

  - the percentage correct on both training and test data.
  - the confusion matrix on test data.

- Write which digit(s) your trained model has the most trouble with.