

Please submit your solutions for this assignment on Canvas by **Friday, Dec. 6th**.

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.