

Deep Learning Lab 6

Due date: October 18, 23:59

Using the code snippet provided on moodle create a CNN that will classify mnist dataset. For the CNN implement the following architecture:

Layer number	Layer
1	Convolutional (number of filters=32, kernel size=3x3) + ReLU
2	Max Pooling (kernel size=2x2, stride=2)
3	Convolutional (number of filters=64, kernel size=3x3) + ReLU
4	Max Pooling (kernel size=2x2, stride=2)
5	Fully Connected (output size=128)
6	Fully Connected (output size=10)

You can use google colab with GPU acceleration to speed up the training.

Submission

Please zip all your files and submit them through Moodle before the deadline.

Late submissions will lose 20 points for each day.

Labs should be completed individually. In the event that academic misconduct such as plagiarism or cheating is discovered, the student will receive no credit for the work, and the event reported to the Dean of your school. Please consult the Academic Integrity Statement given in the syllabus for more details about academic honesty.