

Deep Learning

Test Task

By:

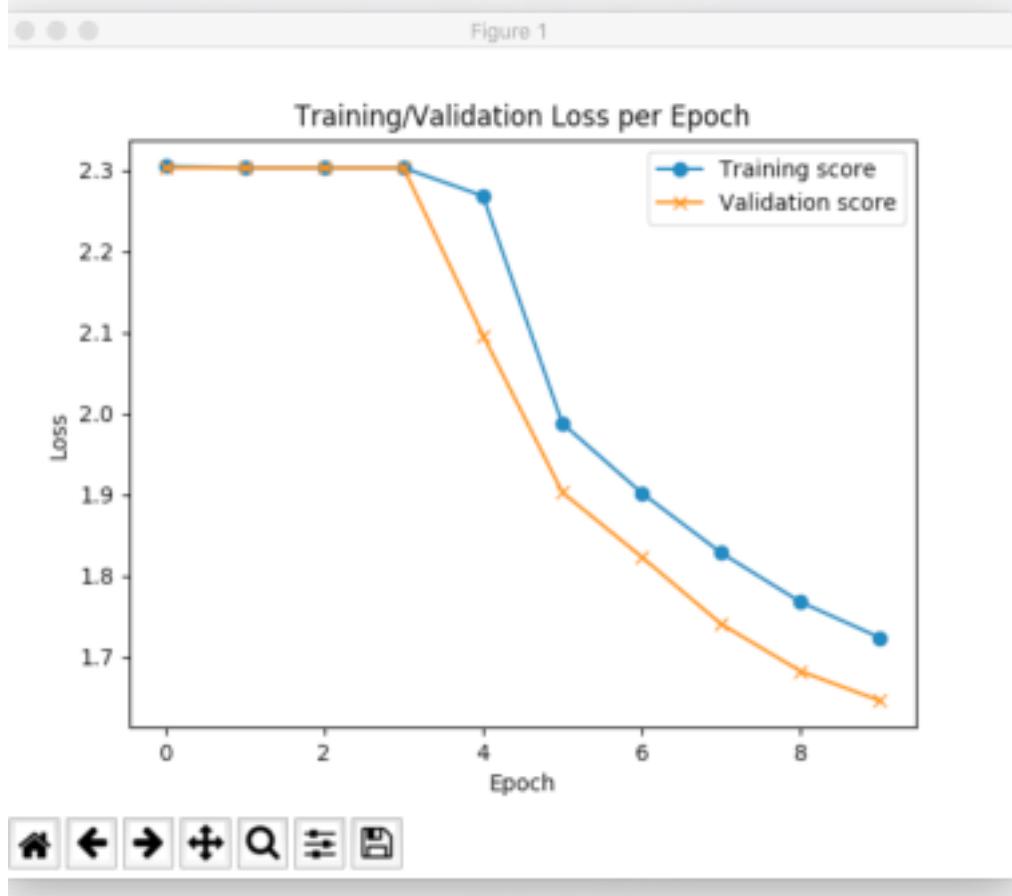
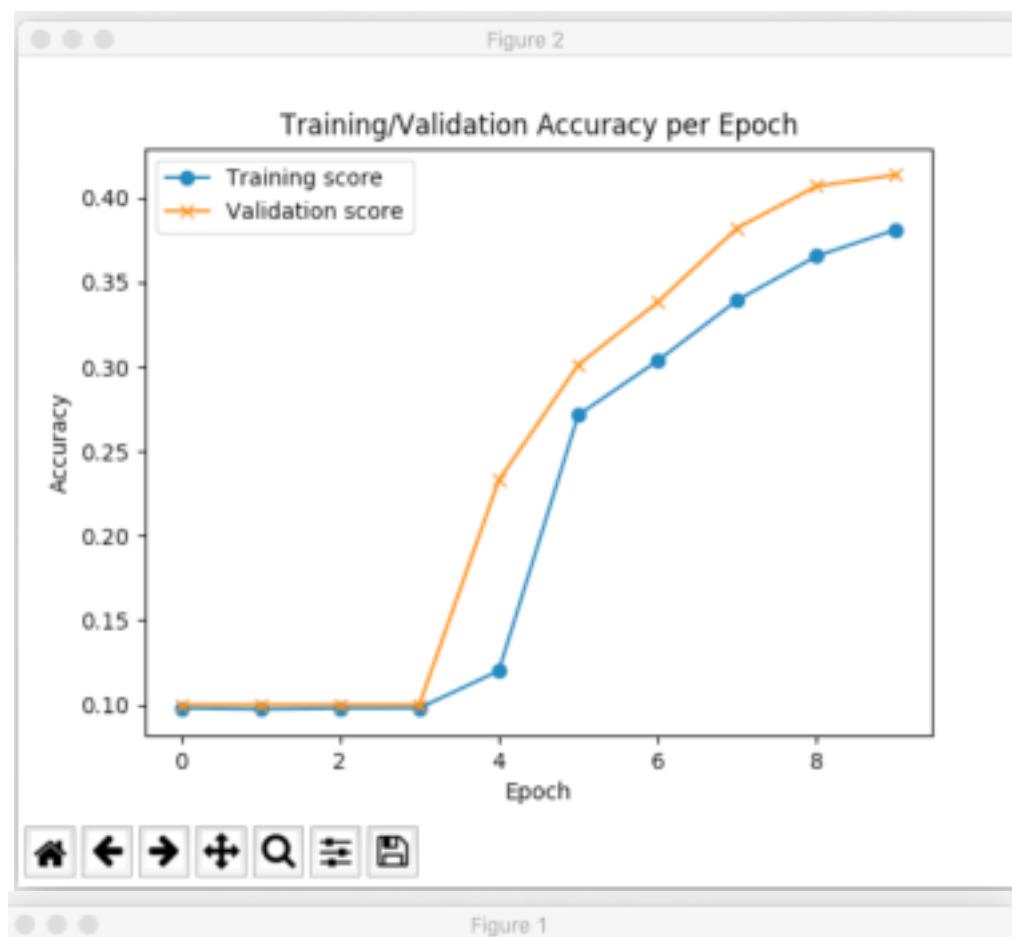
Hoda Hisham Hamdy

I. The code could be found at:

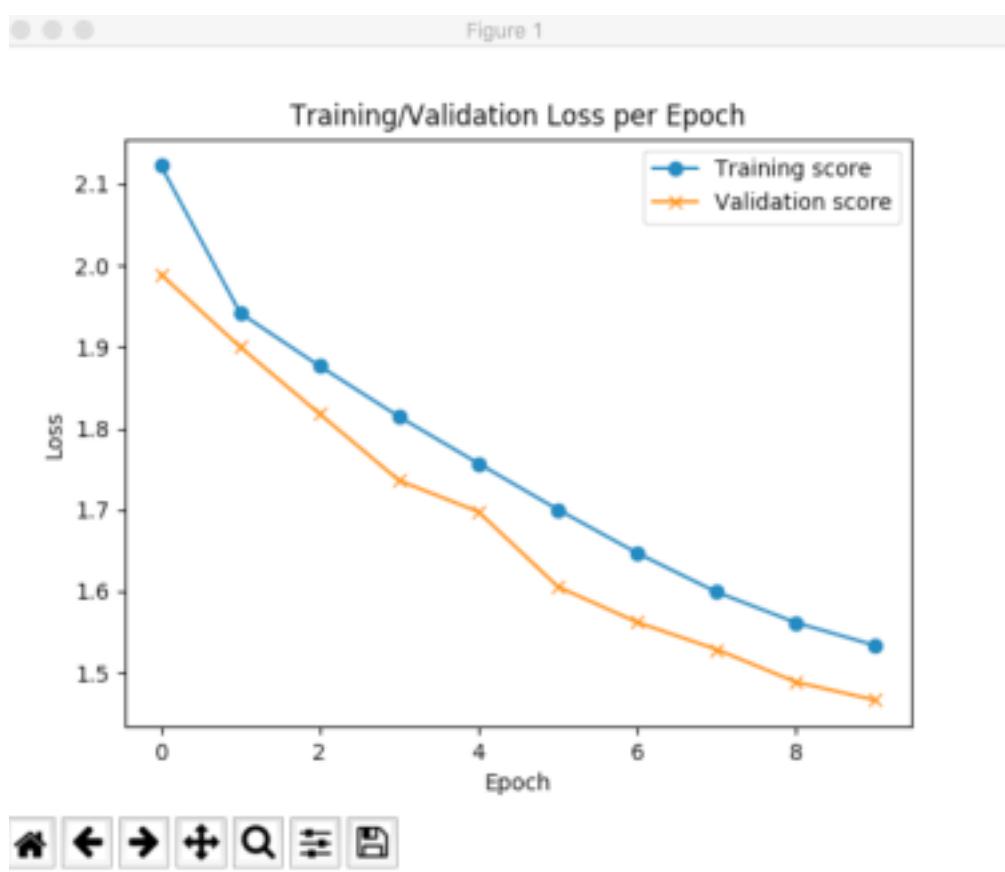
https://github.com/HodaHisham/DL_Task

II.

1. Net 1: (Receptive field of 5x5):



2. Net 2: (Receptive field of 11x11):



These are the curves I got from training using ReLU activation functions and max pooling.
(Net 1)

Figure 1

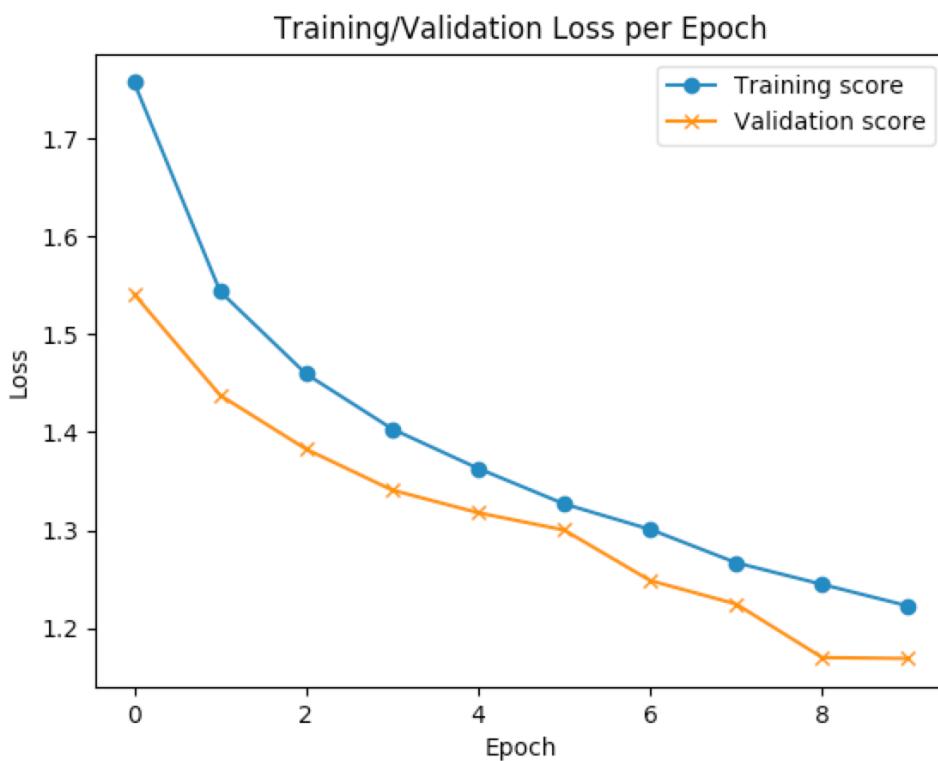
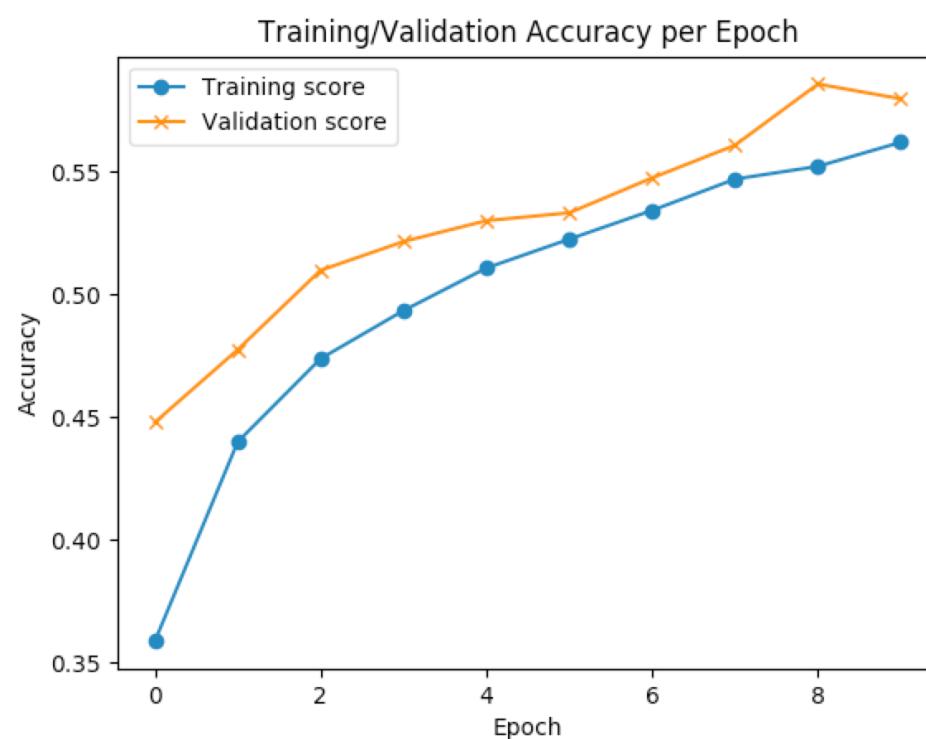
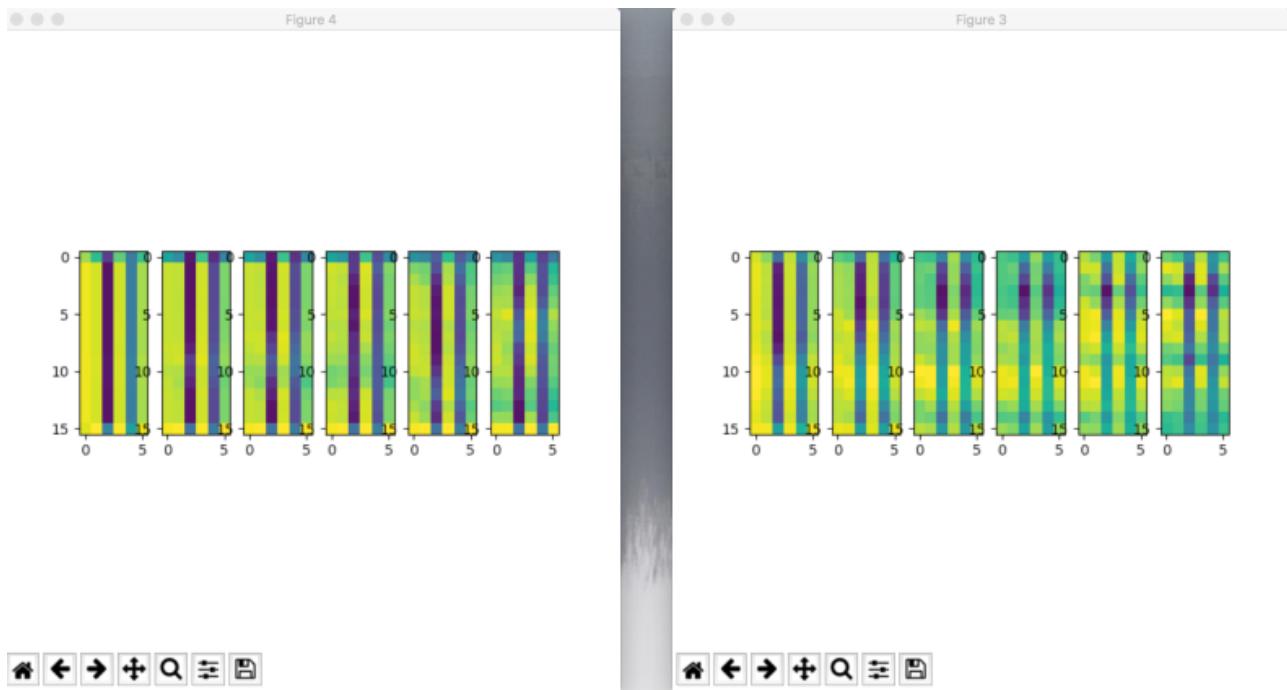
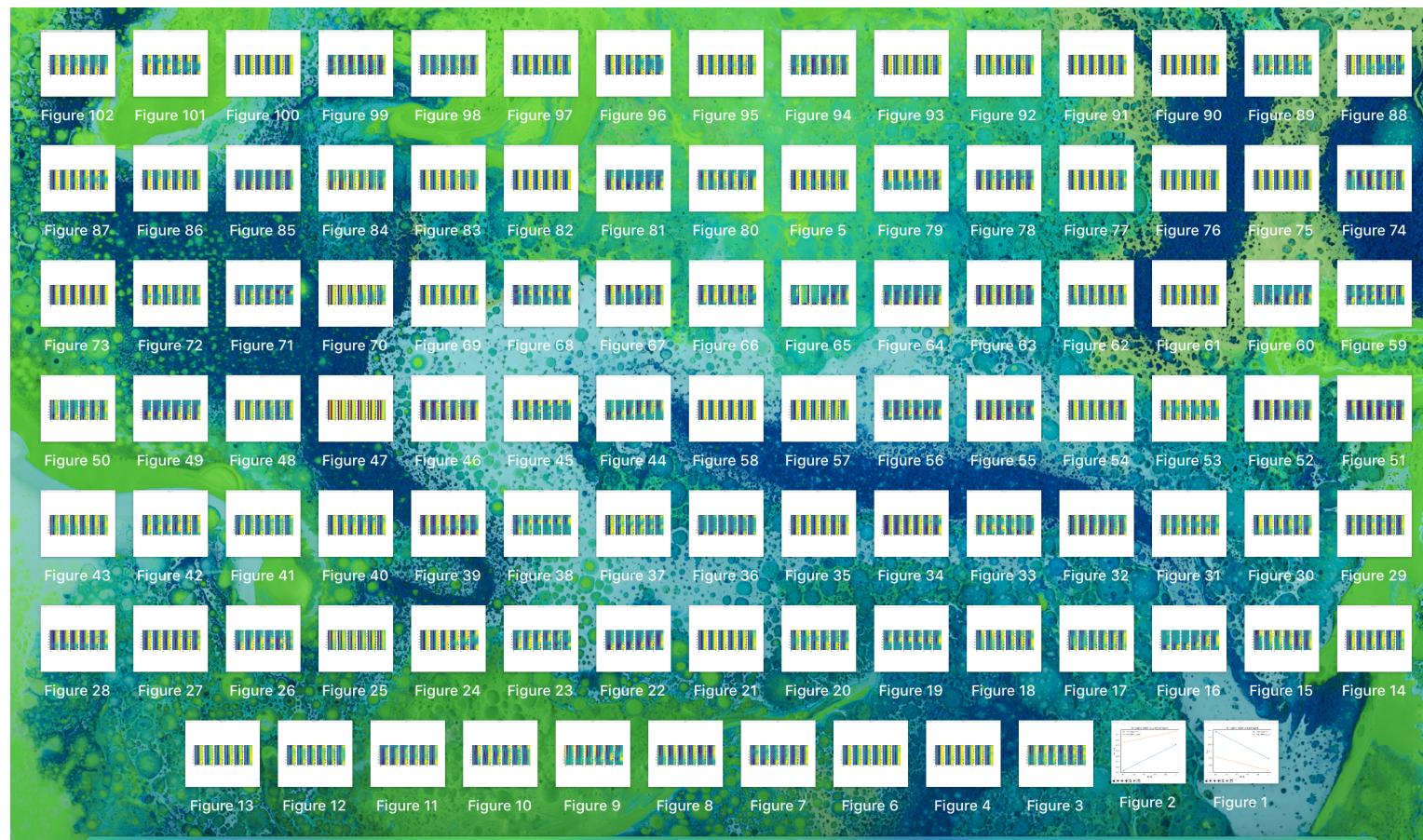
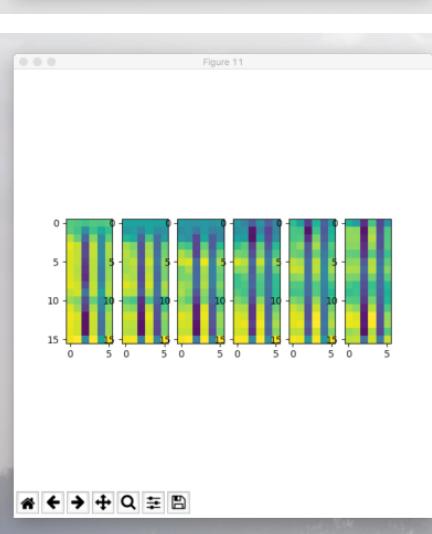
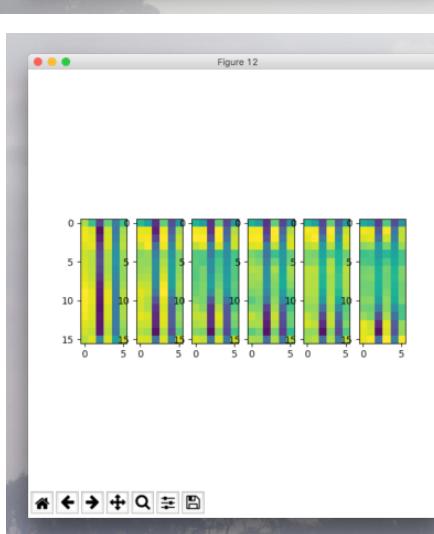
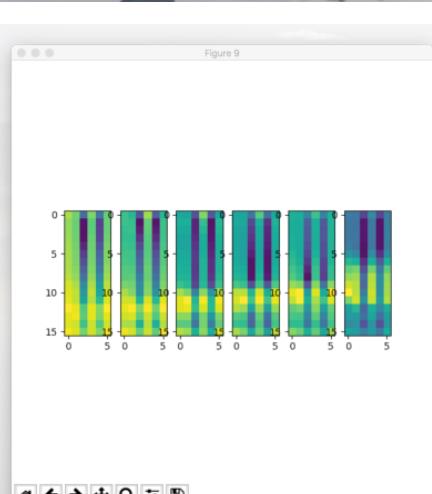
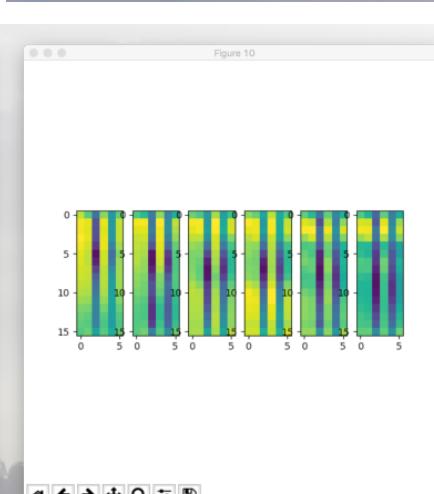
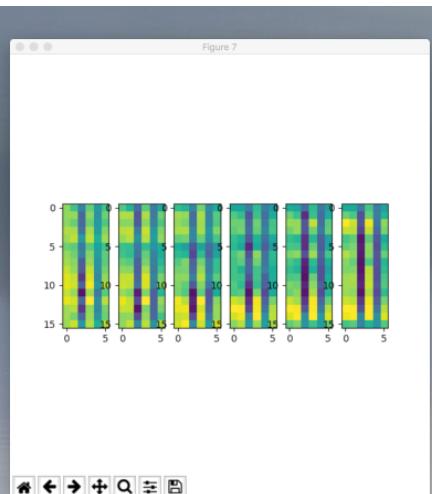
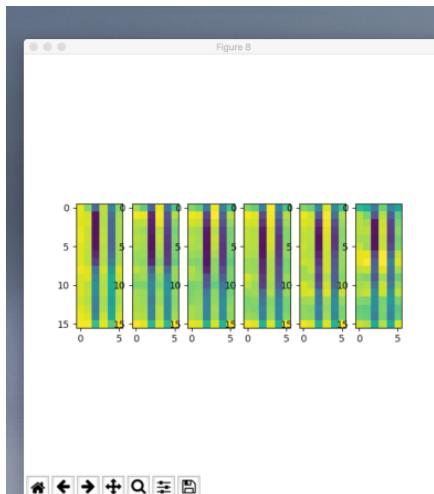
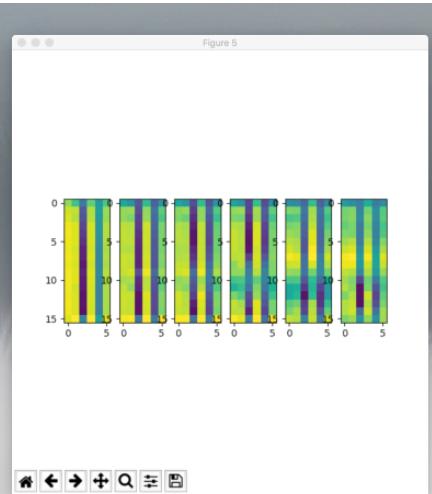
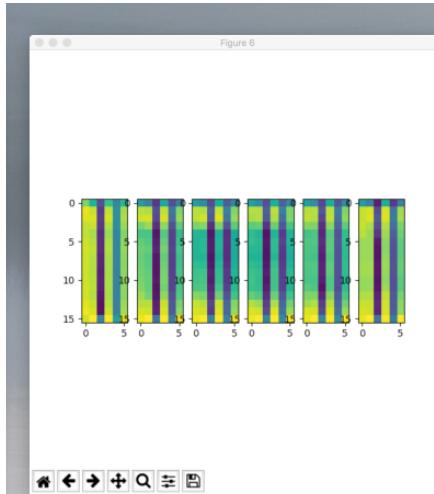


Figure 2



III. 1. Net 1 (5x5): A glimpse of the first 100 images' first layer 6 filters: (5x5)





b. Net 2: (11x11)

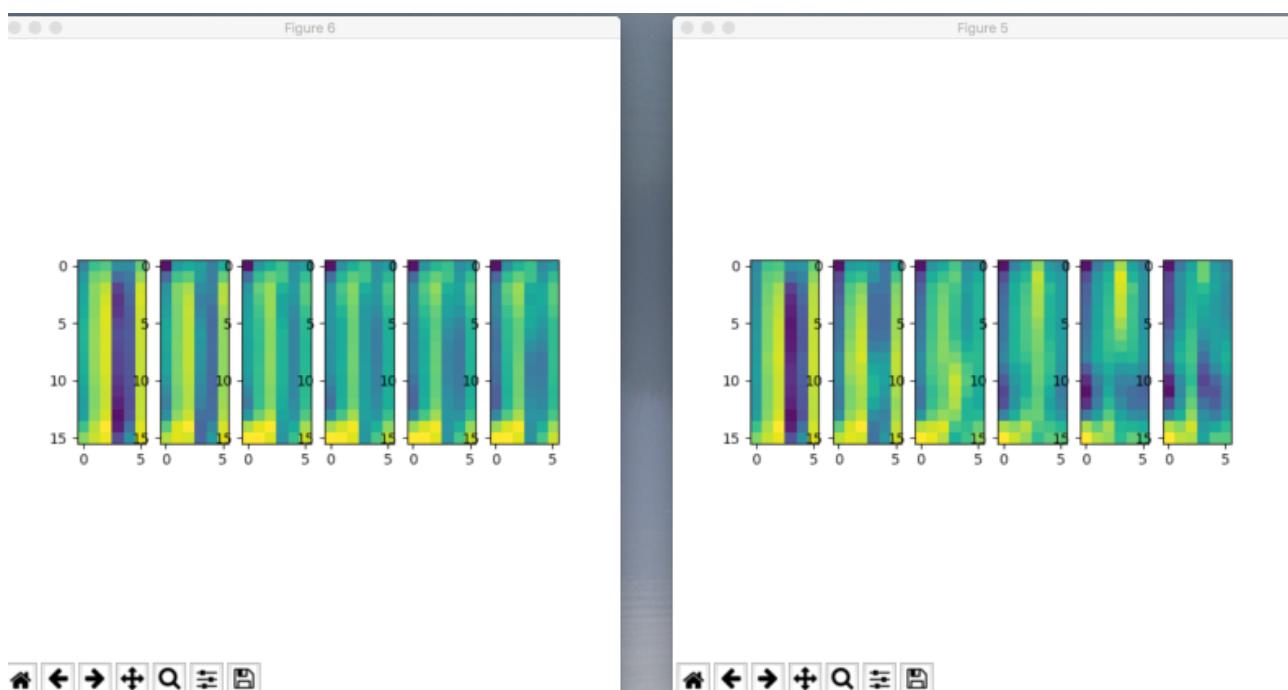
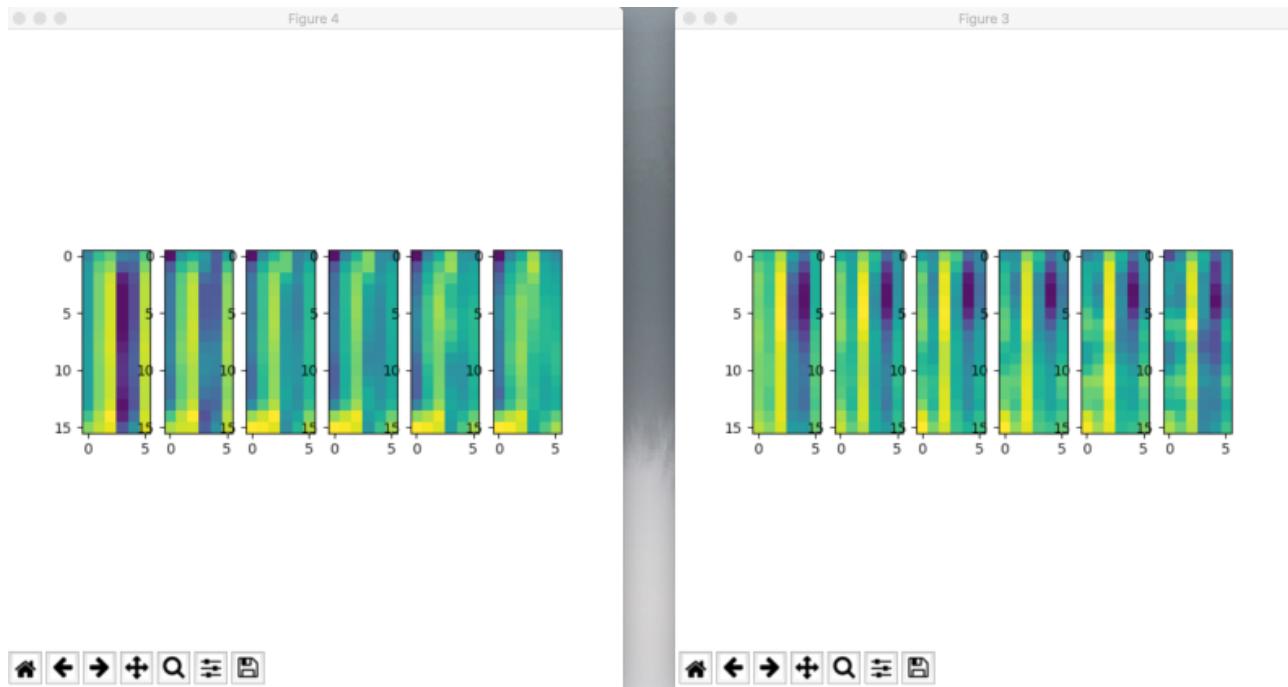


Figure 9

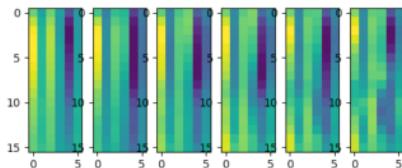


Figure 8

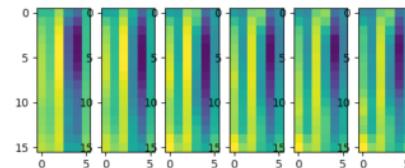


Figure 7

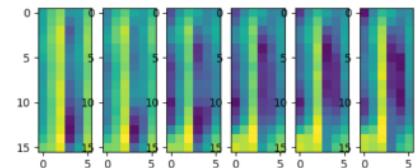


Figure 12

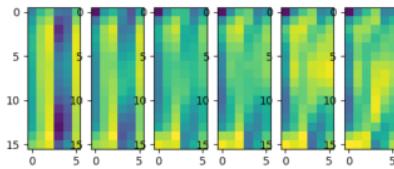


Figure 11

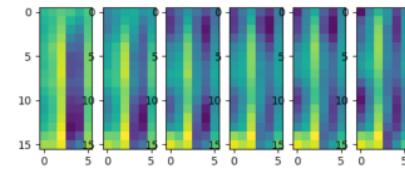


Figure 10

