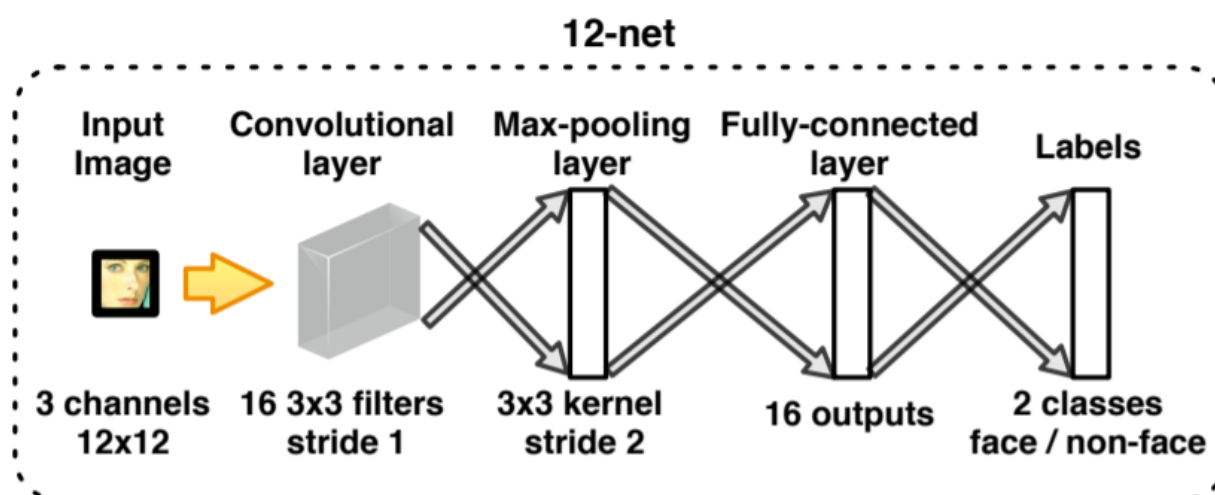


Tel Aviv University
Faculty of Exact Sciences
Computer Science

Deep Learning
Exercise 2



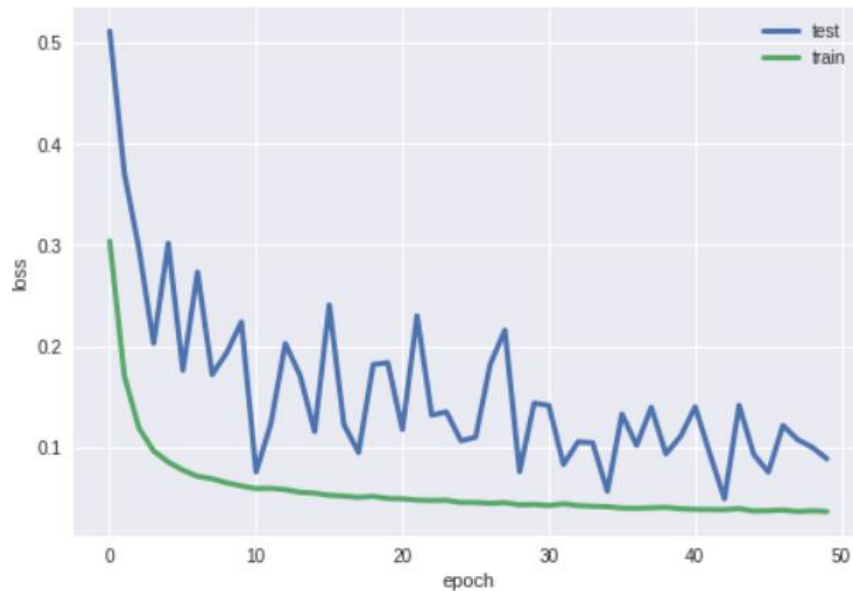
Alex Yudashkin 304325426
Shani Ben Baruch 203888615
Nir Zarrabi-Itzhak 201016680

Question 1: 12-net

The code is at Q1\q1.py

The final test classification error is: 4% (Network accuracy is 96%)

The cost function is:



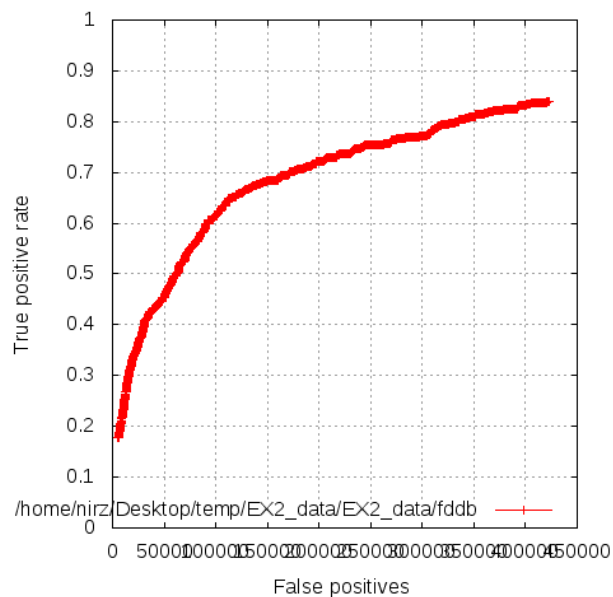
Question 2: Simple detector

Code is attached as Q2\q2net12.py

The detector is saved as \Q2\12net_fcn.pth

DistROC.txt is saved as \Q2\DistROC.txt

The ROC graph:

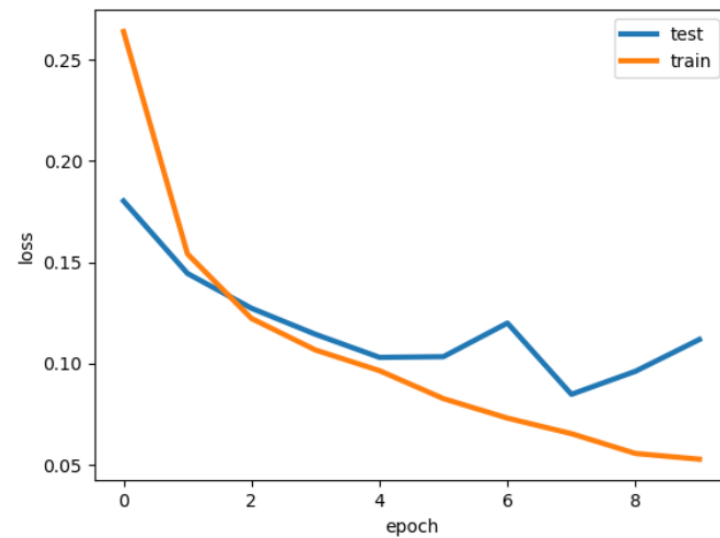


Question 3: 24-net

The code is at Q3\q3.py

The final test classification error is: 4% (Network accuracy is 96%)

The cost function is:



Question 4: Better detector

The code is at Q4\q4.py

DistROC.txt is saved as \Q4\DistROC.txt

The ROC graph:

