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CO542

Neural Networks and Fuzzy Systems

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Lab 03 - Introduction to Perceptron

Exercise 3

Construct a single-layer perceptron to identify a subset (of your choice) of the students in the class (not this class!). Sample jpeg image files are in the folder “classpics” in ‘feels’.

Install and use the scikit-image package in python to load and manipulate image data. Some useful functions are listed below.

- imread() (Hint: refer as gray parameter)
- imshow()
- rgb2gray()
- resize()
- rescale()

Here I have used two subsets BEARDED STUDENTS and NON-BEARDED STUDENTS. They are labeled as

- student has not a beard = 0
- student has a beard = 1

Train_set



I have labeled these training images as [1,1,1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0]

