exp3: perceptron teacher

import numpy as np

import scipy as sp

#input

from numpy.random import seed

from numpy.random import randn

#seed(4)

x1 = randn(4)

x2 = randn(4)

p=randn(4)

q=randn(4)

for i in range(0,4):

  if p[i]<=0:

    x1[i]=0

  else:

    x1[i]=1

  if q[i]<=0:

    x2[i]=0

  else:

    x2[i]=1

print("x1: {}".format(x1))

print("x2: {}".format(x2))

#weights,bias

classe = 1.5

teacher = 1.5

subject = 7

length = len(x1)

for i in range(length):

  if(classe+teacher\*x1[i]+subject\*x2[i]>6):

    print("going for lecture")

  else:

    print("not going for lecture")

output:

x1: [1. 1. 0. 1.]

x2: [0. 0. 1. 1.]

not going for lecture

not going for lecture

going for lecture

going for lecture