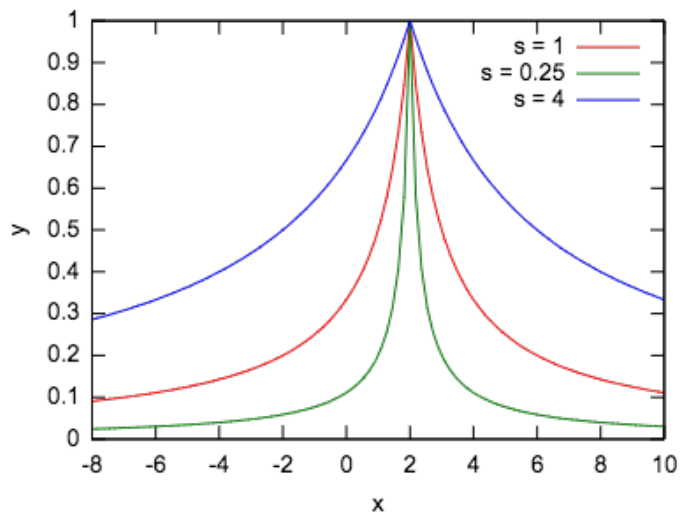


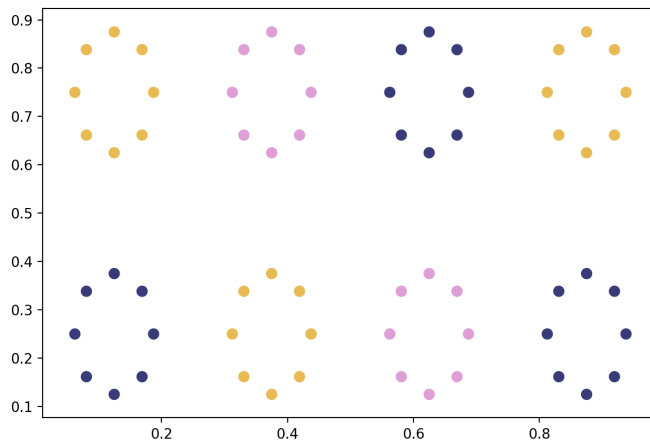
Martin Čekada, 003649961

Izveštaj za sedmu domaću zadaću iz predmeta Neizrazito, evolucijsko i neuro računarstvo.

1. Zadatak



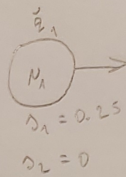
2. Zadatak



3. Zadatak

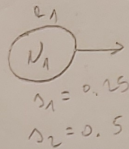
$$\rightarrow w_1 = 0.12$$

$$\rightarrow w_2 = 0.75$$



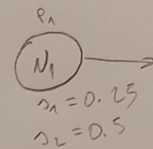
$$\rightarrow w_1 = 0.37$$

$$\rightarrow w_2 = 0.75$$



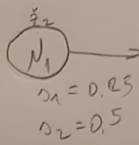
$$\rightarrow w_1 = 0.62$$

$$\rightarrow w_2 = 0.75$$



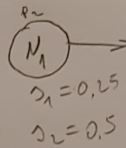
$$\rightarrow w_1 = 0.87$$

$$\rightarrow w_2 = 0.75$$



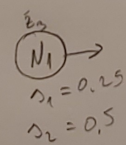
$$\rightarrow w_1 = 0.12$$

$$\rightarrow w_2 = 0.25$$



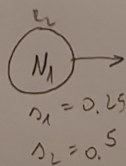
$$\rightarrow w_1 = 0.37$$

$$\rightarrow w_2 = 0.25$$



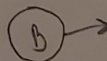
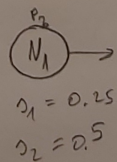
$$\rightarrow w_1 = 0.62$$

$$\rightarrow w_2 = 0.25$$



$$\rightarrow w_1 = 0.87$$

$$\rightarrow w_2 = 0.25$$



$$\rightarrow w_1 = -5$$

$$\rightarrow w_2 = 1$$

$$\rightarrow w_3 = 10$$

$$\rightarrow w_4 = 1$$

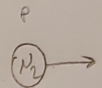
$$\rightarrow w_5 = 10$$

$$\rightarrow w_6 = -5$$

$$\rightarrow w_7 = 1$$

$$\rightarrow w_8 = 10$$

$$\rightarrow w_9 = 0.5$$



$$\rightarrow w_1 = 10$$

$$\rightarrow w_2 = 1$$

$$\rightarrow w_3 = 1$$

$$\rightarrow w_4 = 10$$

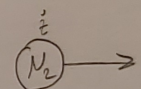
$$\rightarrow w_5 = 1$$

$$\rightarrow w_6 = 10$$

$$\rightarrow w_7 = 1$$

$$\rightarrow w_8 = -5$$

$$\rightarrow w_9 = 0.5$$



$$\rightarrow w_1 = 1$$

$$\rightarrow w_2 = 10$$

$$\rightarrow w_3 = 1$$

$$\rightarrow w_4 = -5$$

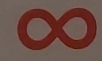
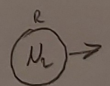
$$\rightarrow w_5 = -5$$

$$\rightarrow w_6 = 1$$

$$\rightarrow w_7 = 10$$

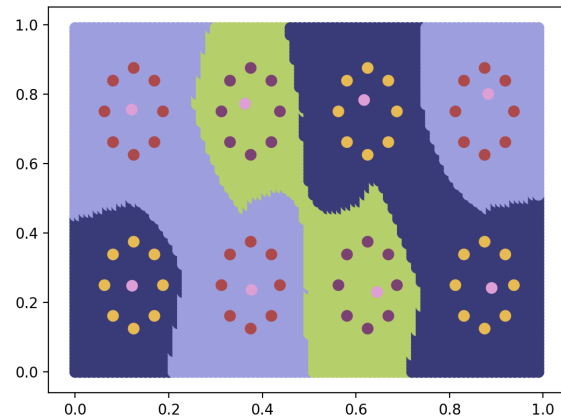
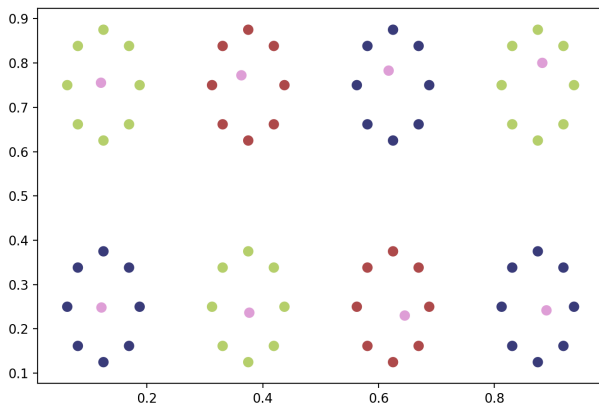
$$\rightarrow w_8 = 1$$

$$\rightarrow w_9 = 0.5$$



4. Zadatak

Neuroni prvog sloja:



Handwritten calculations for the weights and biases of the first layer neurons.

Neuron 1 (N_1):

- $w_1 = 0.56$
- $w_2 = 0.77$
- $a_1 = -0.10$
- $a_2 = -0.29$

Neuron 2 (N_2):

- $w_1 = 0.62$
- $w_2 = 0.78$
- $a_1 = 0.12$
- $a_2 = 0.30$

Neuron 3 (N_3):

- $w_1 = 0.12$
- $w_2 = 0.46$
- $a_1 = -0.19$
- $a_2 = -0.52$

Neuron 4 (N_4):

- $w_1 = 0.88$
- $w_2 = 0.80$
- $a_1 = 0.1$
- $a_2 = 0.26$

Neuron 5 (N_5):

- $w_1 = 0.88$
- $w_2 = 0.24$
- $a_1 = -0.15$
- $a_2 = 0.28$

Neuron 6 (N_6):

- $w_1 = 0.65$
- $w_2 = 0.23$
- $a_1 = -0.06$
- $a_2 = -0.18$

Neuron 7 (N_7):

- $w_1 = 0.34$
- $w_2 = 0.24$
- $a_1 = -0.16$
- $a_2 = 0.28$

Neuron 8 (N_8):

- $w_1 = 0.12$
- $w_2 = 0.25$
- $a_1 = -0.09$
- $a_2 = 0.16$

Neuron 9 (N_9):

- $w_1 = -1.78$
- $w_2 = 8.37$
- $w_3 = -5.31$
- $w_4 = -7.34$
- $w_5 = 7.24$
- $w_6 = -4.88$
- $w_7 = -10.23$
- $w_8 = 14.76$
- $w_9 = 0.37$

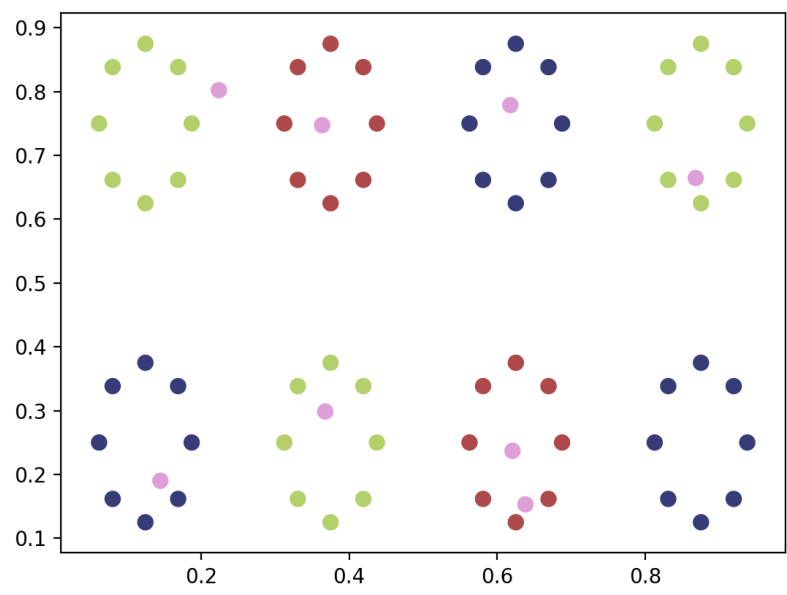
Neuron 10 (N_{10}):

- $w_1 = -11.13$
- $w_2 = -3.10$
- $w_3 = 9.29$
- $w_4 = 13.58$
- $w_5 = -6.35$
- $w_6 = -22.64$
- $w_7 = 17.6$
- $w_8 = -16.24$
- $w_9 = -0.3$

Neuron 11 (N_{11}):

- $w_1 = 18.91$
- $w_2 = -1.4$
- $w_3 = -2.18$
- $w_4 = -30.27$
- $w_5 = 2.53$
- $w_6 = 25.16$
- $w_7 = -4.02$
- $w_8 = -13.11$
- $w_9 = -2.8$

5. Zadatak



6. Zadatak

