

Neural Network

Weight	Height
40	120
-64	-170
-24	-50
120	200
-64	-170
56	30
80	160
-64	-170
16	-10

subtract average

subtract average

subtract average

Other value (optional)

Gewich	Größe
-64	-170

subtract average

$\text{sigmoid}(w1 * \text{weight} + w2 * \text{height} + b1)$

$\text{sigmoid}(w3 * \text{weight} + w4 * \text{height} + b2)$

$\text{sigmoid}(w5 * h1 + w6 * h2 + b3)$

weight	height	w1	w2	b1	h1	w3	w4	b2	h2	w5	w6	b3	o1
-24	-50	0,67	1,87	-0,36		1,33	-0,43	-1,22		-3,18	-2,93	2,92	
56	30	0,67	1,87	-0,36		1,33	-0,43	-1,22		-3,18	-2,93	2,92	
16	-10	0,67	1,87	-0,36		1,33	-0,43	-1,22		-3,18	-2,93	2,92	
		0,67	1,87	-0,36		1,33	-0,43	-1,22		-3,18	-2,93	2,92	

o1-Value close to 1: female
o1-Value close to 0: male
o1-Value around 0.5:
unknown result

Practical Exercise

Now its time to try it out yourself:

- All the formulas you need you find in **network.pdf**
- In **output.pdf** you find the form from above. Fill all your results in that form.
- You can find the values of the sigmoid-function in **sigmoid.pdf**