Treinamento

 $S_3 = 1$

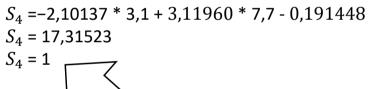
$$S = w_1 * x_1 + w_2 * x_2 - \theta$$

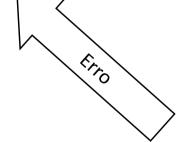
$$w_1 = -2,10137$$

 $w_2 = 3,11960$
 $\theta = 0,191448$

	AtributoA	AtributoA	Classe	Saída
S_1	-5,4	6,1	0	1
S_2	-5,9	3,7	0	1
S_3	-2,8	2,9	0	1
S_4	3,1	7,7	ı	-1
S_5	5,1	6,3	I	-1
S_6	5,2	4,4	- 1	-1

$$S_1$$
 = -2,10137 * 5,4 + 3,11960 * 6,1 - 0,191448
 S_1 = 30,18551
 S_1 = 1
 S_2 = 23,74918
 S_2 = 1
 S_3 = 14,73924

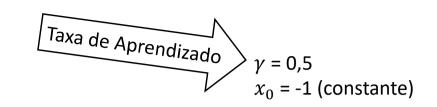






$$w_1 = -2,10137$$

 $w_2 = 3,11960$
 $\theta = 0,191448$



Ajustando Pesos

$$\theta_i = \theta_i + \gamma (d - y) x_0 / 2$$

$$w_i = w_i + \gamma (d - y) x_i / 2$$

$$w_1 = -2,10137 + 0,5 * (-1 - 1) * 3,1 /2$$

$$w_1 = -3,65137$$

$$w_2 = 3,11960 + 0.5 * (-1-1) * 7.7 / 2$$

$$w_2 = -0.7304$$

$$\theta_i =$$
 0,191448 + 0,5 * (-1 -1) * -1 / 2

$$\theta_i = 0.69144$$



Treinamento

S =	W_1	* X ₁	+	W_2	* X2	$-\theta$
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	Р	С	Classe	Saída
S_1	-5,4	6,1	0	1
S_2	-5,9	3,7	0	1
S_3	-2,8	2,9	0	1
S_4	3,1	7,7	- 1	-1
S_5	5,1	6,3	ĺ	-1
S_6	5,2	4,4	1	-1



$$w_1 = -3,65137$$

$$w_2 = -0.7304$$

$$\theta_i = 0,69144$$

$$S_5 = -23,91494$$

 $S_5 = -1$

$$S_6 = -22,8923$$

$$S_6 = -1$$



Treinamento

$$S = w_1 * x_1 + w_2 * x_2 - \theta$$

	Р	С	Classe	Saída
S_1	-5,4	6,1	0	1
S_2	-5,9	3,7	0	1
S_3	-2,8	2,9	0	1
S_4	3,1	7,7	I	-1
S_5	5,1	6,3	- 1	-1
S_6	5,2	4,4	I	-1

$$heta_i = 0,69144$$

$$S_1 = 14,57054$$

$$S_1 = 1$$

$$S_2 = 18,14918$$

$$S_2 = 1$$

$$S_3 = 7,41424$$

$$S_3 = 0,69144$$

$$S_5 = -17,63475$$

$$S_4 = -1$$

$$S_5 = -23,91494$$

$$S_5 = -1$$

$$S_6 = -22,8923$$

 $S_6 = -1$

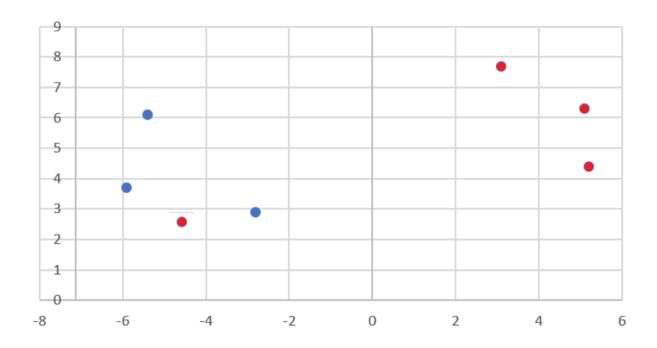
 $w_1 = -3,65137$

 $w_2 = -0.7304$

 $S_3 = 1$



Não Convergência





Fatores de Ajuste



$$S = w_1 * x_1 + w_2 * x_2 - \theta$$

