Robert Sanchez

Petra Maciel

Update the weights (A cycle / Run)

$$W_8 = W_8 - \eta * \frac{\partial E}{\partial W_8}$$

$W_8 = 0.07 - 0.5 * (-0.0301)$
$= 0.07 - (-0.01505)$
$= 0.0851$

Weights W7 through W_1 also get updated

W7 $= 0.33 - 0.5 * 0.0836 = 0.33 - 0.0418 = 0.2882$
W6 $= 0.40 - 0.5 * (-0.0362) = 0.40 - (-0.0181) = 0.4181$
W5 $= 0.05 - 0.5 * 0.1005 = 0.5 - 0.05025 = 0.00025$
W4 $= 0.17 - 0.5 * 0.0037 15156 = 0.17 - 0.01857578 = 0.1514$
W3 $= 0.12 - 0.5 * (-0.000 991148) = 0.12 - (-0.000 495574) = 0.1205$
W2 $= 0.20 - 0.5 * (0.00159221) = 0.20 - (0.000796105) = 0.1992$
W1 $= 0.10 - 0.5 * (-0.000042092) = 0.10 - (0.000021046 = 0.1002$

Bias weights also get updated using the same formula

BW4 $= 0.70 - 0.5 * (-0.0515) = 0.70 - (-0.02575) = 0.7258$
BW3 $= 0.15 - 0.5 * 0.1432 = 0.15 - 0.0716 = 0.0784$
BW2 $= 0.25 - 0.5 * 0.016 = 0.25 - 0.008 = 0.242$
BW1 $= 0.80 - 0.5 * (-0.0028) = 0.80 - (-0.014) = 0.814$