

Equationst Y2 = W0,2 + W1,2 X1 y = wo3 + w1,3×1 yy = Wo, 4 + W, 4061 y = was + wisoki y = wo,6 + w1,6001 47 = WO,7 + W,721 y = wo,8 + w1,8 x, y= Wo, 9 + W, 9 x, 1. y = . Wo, 10 + W1, 10. X1 You = won + which y12 = W0,12 + W2,12 . y2 + W3,12 . y3 + W4,12 . y + Ws,12. 45 + W6,12. 76 + W7,12. 77 + W8,12. y8 + W9,12. y9 + W10,12. 710 + W11,12 . 711 =) Wo,12+W2,12(W0,2+W1,2X1) + W3,12 (W0,3+ W1,3-X1)+W4,12 (W0,4+ W, 4×1) + W5, 12 (40,5+ W1,5 ×6,) + W6,12. (W0,6 + W1,6.8C1) + W7,12. (W0,7 + w,7, x,) + w8,12. (w0,8 + w1,8,26,) + Wa,12 · (Wo, 9 + W1, 9 · 5/2) + W10, 12' (W0,10 + WI, 10. XI) + WI, 12 (WO, 11 + WI, 11 . XI)

JW0,12 + W2,12. W0,2 + W2,12. W12, X1 1 W3,12 "W0,3 + W3,12 · W1,3 · X, + W4,12 · W0,4 + W4,12. W1,4. X1 + W5, 12. W0,5 + W5,12. W15. x,+ W6,12. W0,6 + W6,12. Wy6. x, + W7,12. W0,7 1 W712. W, 7. X, + W8,12. W0,8 + W8,12. W,8. X, j Wq,12, Mo, 9 + Md, 12, M, 16, 20, + M10, 12, Mo, 10 + W10,12, W110, X, + W11, 12, W0,11 + W11,12. WI, II X .. Loss function

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Weight Updation Equations
   W0,12 = W0,12 - 2. d. ( Jiz - factual)
(W2,12 = W2,12 - 2.06. (Y12 - tactual) x (W0,2 + W1,2
W3,12 = W3,12 - 2: x: (y12 - factual) x (W0,3 + W1,3:x1)
Wy,12 = Wy,12 - 2. od. (412 - Factual) x (Wo,4
+ W,4 ×1)
W5,12 = W5,12 - 2 & (712 - Factual) × (W0,5 + W1,5 × X1)
W612= W612-2.2. (412- Factual). ×
                   (\omega_{0,6} + \omega_{1,6} \cdot x_i)
W7,12 = W7,12 - 2. d. (4,2 - Jactual)
        x (W0,7+W1,7. X1)
W8,12 = W8,12 - 2. d. (712 - Factual)
              x ( wo, 8 + w, 8. X,)
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Wo,8 = Wo,8 - 2.06. (4,2 - Yackval) Wo,9 = Wo,9 - 2- &. (/12 - factual) (Wo,10 = Wo,10 - 2. d. (712 - Jactual) Woji = Woji - 2.0. (y12 - factual) = W12 - 2. W. X, (412 - factual) W1,3 = W1,3 - 2. d. D. (412 - factual) W1,4 = W1,4 - 2-X->4. (712 - Factual W1,5 = W1,5 - 2-61. M. (7,2- factual) W1,6 = W1,6 - 2-x.x1 (712 - Factual) = W, 7 - 2. diroci (712 - Factual)

W18 = W18 - 2. d. X1. (412 - Factual [W19 = W19 - 2. d. X1. (712 - Factual) W,10 = W,10 - 2. d. S(1. (712 - Factual) (WIII = WIII - 2. L.X, (412 - factual)