Assignment 15 1- 1X () - 1X () - 1X () 16K41A04 92 38633668.4- - (3-1min-16) - - 6 X X Y 0.2 3.4 05 2 8 5 0 (0.0) (1.1) 1 (0.2) (0 RMSPROR step 1: [x, y], epochs=2, m=1, c=-1, Em=Ec-0, 7=0.0001, 9=0.9, C=108 Step 2: "Her = 0 Step 4: 9m - Cy1-mx1-c)x1 = -0,84 90 = - (41-1mx + 6) = = 14.2 3 4012 Step 5: Em = 7 Em + (1-7) (9 m) = 0.67056 100 Ec = 7 Ec + (1-7) (95 = 1:764 Step 6: Dm= -1 10 9m = 0,0003 16 23 Vemte 12 > 10 +1) 8 : 11 40 +8. Ac - - N 9c = 0.00031623 Jerte o stymbs & 428 Step 7: m=m+Dm=1000031623 C= C+ DC = -0.99968377 Step 8: Sample=Sample+1=0+1=1

Step 9: If (Sample < number of samples) 1 < 2 / 1-1860 goto step 4 Step 4: gm = - (4; -mx; -c) x; = -1.75982291 9c=-(y;-mx;-c)=-4.39955728 Step 5: Em = 7Em+ (1-7) (9m) - 0,37320167 EC= 7EC+ (1-4) (9c)= 3.82321043 Step 6: Dm - - 12 9m = 0.00028807 $\Delta_{c} = -N - 9c = 0.00023439$ Step 7: m=m+0 m= 1.0006043 C= C+DC=1-0.49944938 Step 8: sample = sample +1 = 1+1=2 step 9 in if (sample < nombre of samples) the goto step 30/next step Step 10 30 9 ter=iter+1 = 0+1=1 Step 11: Step Lepochs) Exologoto Step 3 11- 54 Step 3 : sample=0 Step 4: gm = - (4-mx;-c)x; = -0,8398657 90 - (Vi-mxi-c) = -4.19932852

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Step 5: Em = 7Em + (-7)(gm)2= 0,40641894
         ec= YEC+(1-7)(90)2= 4.93432539
Step 6: Am = -12 9m = 000013174
        DC=-11 9c= 4093402889
Btep 7: m=m+Dm = 1.00073604
        C = C+D m = -0.999 26034
step 8: Sample-sample+1=0+1=1
Step 9: if (sample number of samples)
          goto step 4
Step 4: 9m= - (Yi-mxs-c)xs=-1.75958637
        9c = -(Y_i - mx_i - c) = -4.39896592
Step5: Em= 7Em+ (1-7) (9m)2 = 0.67539147
        Ec= 7 Ec+(1-4)(9c)2 = 6.37598297
Step 6: Am = -1 gm = 0,000 2141)
         DC = -n gc = 0.00017421
Step 7: m=m+Dm= 1.00095045
          C= C+ AC- -0:99908612
9 tep 8: sample = sample + 1 = 1+1 = 2
Step 9: if (sample < number of sample,
               2 42
           one goto Step10/ stext Step
Step 10: itel = itel+1 = 1+1=2
Step 11: if (ites < epochs)
           ene goto next step/step 12
step 12: print(m, c) = (1.00095015) -0.99908612) mg
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