Assignment 7

Date Time

Load (kW)

KrishnatejaJ 17KY1AOBAS

01.09.2018 0:00

5551.822

01.09.2018

4983.172

Since, the load how to predicted based on the same hour load in the previous day, the dolaset has to be modified.

Day-1(x)

Day-2(%)

5551.82208

4931.26380

4983.17184

4775.53968

Stepl:

Read dataset, 2=0.1, epoch=2, m=1, c=-1, 7=0.9, Vm = 0 and Vc = 0

Step2.

Set iteration = 1

Step3:

Set sample 1=1

Step4:

Y = (1)(5551.82208) - 1 = 5550.82208

Step 5:

- (5550-82200) - 1 (5551.82208) +1) 5551.82208

DE = 3439677.338750

DE = - (4931.26380 - 1 (5551.82208)+1)

= 619.55828

Slep 6:
$$V_m = 0.9(0) - (6.1)(3439677.338750)$$

$$V_n = -343967.733875$$

$$V_c = 0.9(0) - (6.1)(619.55829)$$

$$V_c = -61.95583$$

$$Slep 7: m = 1 + (-343967.733875) = -343966.733875$$

$$C = -1 + (-61.95583) = -62.95583$$

$$Slep 8: sample i = i + 1 = 2$$

$$Slep 9: Y = (-343966.734)(4983.17184) + (-62.95583)$$

$$Y = -1714045405.72$$

$$Slep 10: \frac{\partial E}{\partial m} = - (\frac{4775.53968}{274404540542} - (-343966.734)(4983.17184)$$

$$\frac{\partial E}{\partial m} = - (4775.53968 + 1714045405.72)(4983.17184)$$

$$\frac{\partial E}{\partial m} = - (4775.53968 + 1714045405.72)(4983.17184)$$

$$\frac{\partial E}{\partial m} = -8541406595607.112$$

$$\frac{\partial E}{\partial m} = -1714050181.261$$

$$V_m = -854140969131.67$$

$$V_c = 0.9(-343967.734) - (0.1)(-8541406595607.112)$$

$$V_m = -854140969131.67$$

$$V_c = -171405073.88634$$

Step 12: m= -343966.734 - 854140969131.67

m= -854141313098.4

C = -62.95583

Step 13: Iterration +1 = 2, Sample = 1

Slep 14: Y = (-854141313098.4) (5551.82208) + (-62.95583)

Y= -4.7420406014E15

 $\frac{5 + 15}{2m} = - \left(4931.26380 + 4.7420406014E15 \right)$ (5551.82208)

= -2.63269657156E19

18E = -474204060150E15

 $V_{m} = (0.9)(-854140969131.67) - (0.1)$

(-2.63269657156E9)

= 2.6326958e18

 $V_{c} = (6.9)(-171405073.88634) - (6.1)(-4.74204060150$

= 4.7420390GE14

Step 17: m = -854141313098.4 + 2.6326958E18 = 2.63269495E18 C= -62.95583 +4.74203906E14 = 4.74203906e14 Step 18: Sample = i+1=2 Step 19: Y= (2.63269495E18) (4983.17184) +4.74203906E14 Y= 1.31191718 E22 $\frac{\partial E}{\partial m} = -\left((4775.53968 - (2.63269495E18)(4983.17184) \right)$ Step 20: - 4.74203906E14)) (4983.17184) = -(4775.53968 - 1.31191718E22)(4983.17184)= -6.53750875E25 $\frac{\partial E}{\partial c} = -\left(4775.53968 - 1.31191718E22\right)$ = -1.3191718E22 Step 21: $V_m = (0.9)(2.6326958E18) - (0.1)(-6.53750875E25)$ = 6.53751112E2Y Vc = (0.9)(4.74203906E14)-(0.1)(-1.31191718E22) = 1.3119176/e2

9

Step 22: m= 2.63269495E18+6.53751112E24

m = 6.53751375E24

C = 4.74203906 E14 + 1.31191761 E21

C = 1.31191808E21