## ASSIGNMENT - 4



-1 Read dataset 
$$xi^9 = 7.6$$
;  $yi^9 = 157$   
 $M_S = 2$   $xi^9 = 7.1$ ;  $yi^9 = 174$ 

$$2n = 4 \frac{36}{3m} = -0.1 (-1127.84) = 112.981$$

$$30 = -\frac{36}{30} = 14.84$$

$$-8 \text{ update } m \neq c$$

$$m = m + 3 m = 113.78$$

$$c = c + 3c = 13.84$$

$$-9 \text{ sample } i = i + 1 = 2$$

$$i \times n_S = 2 \times 2 \text{, false}$$

$$back \text{ again } 70 - (-)$$

$$-4 = m n_1 + 2$$

$$13.78 (7.1) + 13.84$$

$$42 = 821.878$$

$$-8 = \frac{1}{2} \left[ 174 - (113.78)(7.1) + 13.84 \right]^2$$

$$= -309.999$$

$$-\frac{36}{3m} = -(4)^{-9} - m x_1 - (-) x_1 - 18.84 + 1.1$$

$$\frac{3f}{3m} = 4598.5132$$

$$\frac{36}{3c} = -(4)^{-9} - m x_1 - (-)$$

$$= -(174 - 113.78 (7.1) - 13.84)$$

$$= 647.678$$

$$\Delta m = -\frac{7}{2m} = -0.1 (4598 - 513)$$

$$= -459 \cdot 8513$$

$$\Delta c = -\frac{7}{2c} = -0.1 (647.678)$$

$$= -64.7698$$

$$m = m + 0m = 113.78 - 459.85$$

$$= -346.07$$

$$C = C + 0C = 13.84 - 64.769$$

$$= -50.929$$

$$- i = i+1 = 3$$

$$i \neq (i < m < 2) = 3 < 2$$

$$next \cdots$$

-11 Cal. MSE expor = 
$$\frac{1}{ms} \sum_{i=1}^{N_s} (y_i^9 - y_i^2)^2$$
  
=  $\frac{1}{2} (y_i^m - y_i^m)^2 + \frac{1}{2} (y_i^9 - y_i^2)^2$   
=  $\frac{1}{2} (157 - 6.6)^2 + \frac{1}{2} (174 - 82167)^2$ 

= 221048.29 , RMSE = 470.15