## Machine hearing

Assignment - 2

(8BCS037

U = 8A MARCO I CARO

 $lnp(t,x,\omega,\beta) = -\frac{\beta}{2} \sum_{i=1}^{8} [y(x_i,\omega) - t_i]^{t} \frac{N ln\beta - N}{2} ln2\pi$ 

Differentiating wit wo.

i) Diffuentiate wit work equating it to O.

Given Bel, 2,60.6

$$N = N = N = N = N \Rightarrow 0$$

$$W_1 \leq N_1 + \sum_{i=1}^{N} V_i \leq N_i = 0 \Rightarrow 0$$

$$V_2 = N_1 + \sum_{i=1}^{N} V_i \leq N_i = 0 \Rightarrow 0$$

is Differentiate wit wi & Equating to D

Machine Krowing from DEO WA+ WON-B=O > 3xA

recognization with this c+ woA-D=0 -> (9 XN)

WIAZ+WOAN -AB=0

TIEND 1- END 1- 100, CN + WOAN - ON 20

000 + 16,00 = N

 $w_1 (A^2 - CN) = BA - dN$   $w_1 = BA - dN$   $A^2 - CN$ 

wieBAJON to tothony (

[it = 0 con + 1 1 con | 2 ch = [it - (con in) in) ] = 4 ch

wo = d - wich land water

0= j+3 -00 \$ + inica \$

a or Estering 3 ion town tootherway to a

0=711(i+-(cv.;16) 1) 3 6

(S) - 4= (init- inow fix ia) 3 6