$\frac{1}{2\sqrt{2\pi}} = \frac{1}{2\sqrt{2\pi}}$

-) (2, 1), (2, 3), (2, 3), (2, 3) -) (3, 7) (4, 7) (4, 7) (4, 7)

 $ln(p(1) = -ln(\sqrt{120}) - (\sqrt{2})^2$ Lost for a single data point

our loss fame. would be the sum ation

of costs for all the data puts. $L(u, +) = -N \ln(\sqrt{2\pi}) - \sum_{q=1}^{N} \frac{(x_q - u)^2}{2\sigma^2}$ to $\int_{q=1}^{\infty} d^2 u d^2 u d^2 u$ 2 0 2 T $\frac{\partial \lambda}{\partial y} = 0 = 0$

 $ln(p(1) = -ln(\sqrt{120}) - (\sqrt{2})^2$ 18t for a single data point

our loss fame. would be the sum ation

of costs for all the data puts. $L(u, +) = -N \ln(\sqrt{2\pi}) - \sum_{q=1}^{N} \frac{(x_q - u)^2}{2\sigma^2}$ to $\int_{q=1}^{\infty} d^2 u d^2 u d^2 u$ 2 0 2 T $\frac{\partial \lambda}{\partial y} = 0 = 0$

$$\frac{\partial L}{\partial u} = \sqrt{2} \frac{1}{8\pi^2} = 0$$

$$\frac{\partial L}{\partial u} = -\frac{N}{\sqrt{2\pi}} \times \sqrt{2\pi} + \sqrt{2} \frac{1}{2\pi} \times \sqrt{2\pi} + \sqrt{2} \frac{1}{2\pi} \times \sqrt{2\pi} + \sqrt{2\pi} \times \sqrt{2\pi} + \sqrt{2\pi} \times \sqrt{2\pi} \times \sqrt{2\pi} + \sqrt{2\pi} \times \sqrt{2$$

Male & Pemell. n - hair length, 2) call features are in dep.

2 each feature Jellows its own

Dosa forior (ike liboo)

P(CK/X) max. among them for the right class. T (21, 12, 1-14) () () () ()

rogisticis

Birary (lamit. 1 -> +Ve chu O - Vl clay, His probfor find Build a relationship

Signesid Junction:

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live i) first train a y=wx Add von-Cenearity belonging to Dariametoryclass D.

live i) first train a y=wxx Add von-Cenearity belonging to Dariametoryclass D.

?) first train a live y=wx Von- Ceneauity belonging to parameters-6

Cofe (Shoot i -We know we have only 2 possible susput $\frac{1}{2} \frac{h(x)}{h(x)} \times \frac{1}{2} \frac{1}$ taking - ve / g Crée (Phood. John (h(xi)) + (1-yi) h(1-h(xi)) h (x?) Optimal pareneter.

MEE

 $h(x) = \frac{1}{1 + e^{-\omega x}}$

 L_{ω}

$$h_{\omega}(x_{i}) = \frac{1}{1+e^{-\omega^{T}}x_{i}^{2}}$$

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$$\int_{1+1}^{\infty} \frac{1}{1+e^{-\omega^{T}}x_{i}^{2}} \int_{1+1}^{\infty} \frac{1}{1+e^{-\omega^{T}}$$

 $(1-y_{1}) \times \frac{1}{\omega x_{1}} \times x_{1} \times e^{\omega x_{1}}$ $(+e^{-\omega x_{1}})$ Φ $\chi_i y_i \left(H e^{-\omega / \chi_i} \right)$ He-wTx,?

 $= \sum_{i=1}^{n} \chi_{i} \left(\nabla (\omega^{T} \chi_{i}) - \mathcal{J}_{i} \right)$ XTTTWXX-YWhen = Word - L (DL)