Probabilistic Interpretation in slide 11:

s. First step: Let's amme we have bias.

$$L(w) = \left(\frac{1}{2\sqrt{2\pi}\sigma}\right)^{N} exp\left(-\frac{\sum_{m=1}^{N} (y_{m}-w_{0}-w_{m})^{L}}{2\sigma^{L}}\right)$$

2. Apply log:

$$\begin{split} & l(w) = \frac{1}{2\theta^2} \sum_{n=1}^{N} (\gamma_n - w_0 - w^T x_n)^2 - N(\frac{1}{2}\log^2 - \log \sqrt{2\pi}) = \\ & = \left| \frac{1}{2\theta^2} \sum_{n=1}^{N} (\gamma_n - w_0 - w^T x_n)^2 - \frac{N}{2}\log^2 \right| - \log \sqrt{2\pi} \\ & = \frac{1}{2} \left( \frac{1}{\theta^2} \sum_{n=1}^{N} (\gamma_n - w_0 - w^T x_n)^2 - N\log^2 \right) + constant \\ & = \frac{1}{2} \left( \sum_{n=1}^{N} \frac{1}{\theta^2} (\gamma_n - w_0 - w^T x_n) - N\log^2 \right) + constant \end{bmatrix}$$

= Cm, this means that the cost may vary according to Nrize (we can check the).

Also, it N rige vaires, one may expect that Isma also vaires, thus, influencing, the enor trustion.