## Logistic Regression Steps

Hypothesis Function - ho(x) = 0 x [ Line as Regression Hypothesis]

In logistic sugression, we modify the above equation abit by adding sigmoid In to it

$$h_{\theta}(x) = g(\theta^{\dagger} x) \qquad g(x) = 1 \Rightarrow \text{signaid } f^{N}$$

$$h_{\theta}(x) = 1 \qquad \text{signaid graph}$$

$$1 + e^{-\theta^{\dagger} x} \qquad g(x) = 1 \Rightarrow \text{signaid graph}$$

Logistic Regrussion Cost function

$$\mathcal{J}(\theta) = \begin{cases}
i & = 0 \quad i & = 0 \\
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\end{cases}$$

$$\mathcal{J}(\theta) = -(1-x) \quad \log(1-x) = -(1-x) \times -\infty = \infty$$

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cost j heads to 00, when the productor values is misclessifying Logistic regression cost j is complex, to compute the night value of 9, we need to minimize J(8)

Therefore until convergence

$$\frac{\delta J(\theta)}{\delta \theta} = \frac{1}{m} \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad ; \quad \delta \partial_j = \theta_j - \infty \left( h_0(x) - y \right) x \quad$$