$$E(h(x^{i}), j^{i}) = - lg(h(x^{i})) \quad j = \int_{1}^{1} \int_{1}^{1} \int_{1}^{1} ds$$

$$- lg(1 - h(x^{i})) \quad j = 0$$





$$E(h(x^{i}), J^{i}) = - b \left(h(x^{i})\right) \underbrace{J = \overbrace{J^{i}}^{i} \underbrace{J^{i}}_{J} \underbrace{J}^{i} \underbrace{J$$

$$\frac{F\left(h(ni),y^{i}\right)=-\frac{y^{i}h(ni)^{3}}{-\sqrt{1-y^{i}}}\log_{1}\left(h(ni)\right)}{-\sqrt{1-y^{i}}\log_{1}\left(h(ni)\right)}$$



$$\left( \begin{array}{c} \exists \left( \mathcal{N}, \mathcal{J} \right) = \frac{1}{m} \cdot \begin{array}{c} \Xi \\ \exists 1 \end{array} - \begin{array}{c} \exists i \cdot \partial_{i} \left( h \cdot \left( \mathcal{N}^{i} \right) \right) \\ - \left( 1 - \mathcal{N}^{i} \right) \cdot \partial_{i} \left( l - h \cdot \left( \mathcal{N}^{i} \right) \right) \end{array} \right)$$

$$S(z) = \frac{1}{1 + e^{-z}} \begin{cases} S(z) > 0.5 \\ \text{if } z > 0 \end{cases}$$

$$h(x) = S(m^{T}x) = \frac{1}{1 + e^{m^{T}x}} \begin{cases} h(x) > 0.5 \\ \text{if } m^{T}x > 0 \end{cases}$$

