Logistic Regression on m examples:

$$a^{(i)} = \hat{j}^{(i)} = \sigma(z^{(i)}) = \sigma(w^{\dagger}x^{(i)} + b)$$

$$\frac{\partial}{\partial w_i} J(w,b) = \frac{1}{m} \sum_{i=1}^{m} \frac{\partial}{\partial w_i} L(a^{(i)}, y^{(i)})$$

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