

Logistic Regression

- 1) It is a machine learning algorithm under supervised learning and classification tasks.
- 2) The hypotheses is given by equation (5). $g(z)$ stands for the logistic or sigmoid function.

$$h_{\theta}(x) = g(\theta^T x) = \frac{1}{1 + e^{-\theta^T x}} \quad (1)$$

- 3) Note

$$g'(z) = g(z)(1 - g(z)) \quad (2)$$

- 4)