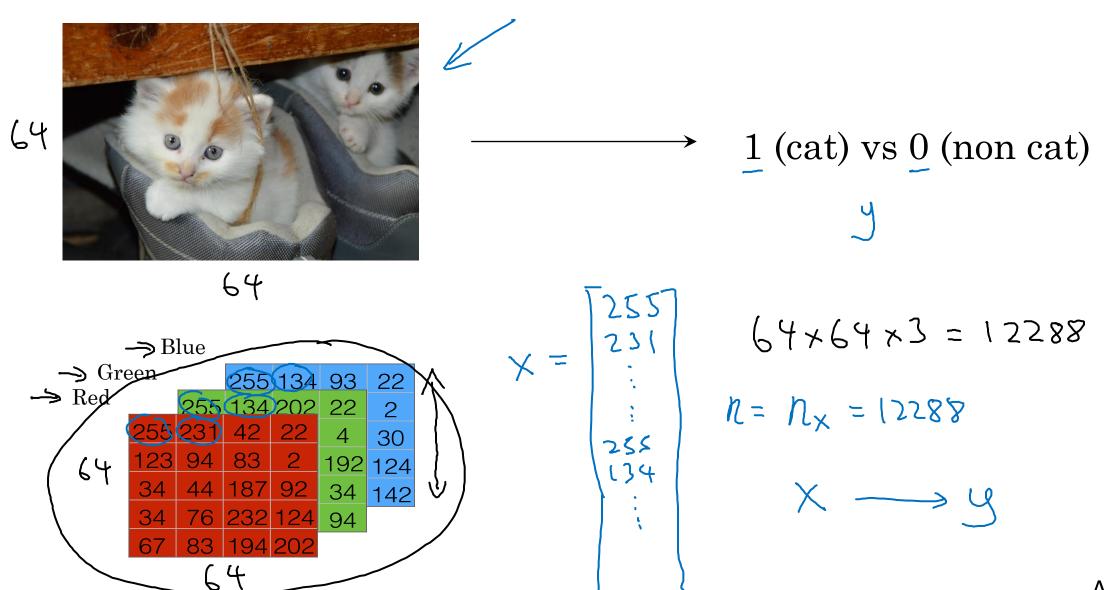


deeplearning.ai

Basics of Neural Network Programming

Binary Classification

Binary Classification



Andrew Ng

Notation

$$(x,y) \qquad \times \in \mathbb{R}^{n_{x}}, \quad y \in \{0,1\}$$

$$m \quad + \text{rainiy} \quad \text{evarple} : \left\{ (x^{(i)}, y^{(i)}), (x^{(i)}, y^{(i)}), \dots, (x^{(m)}, y^{(m)}) \right\}$$

$$M = M \quad + \text{rain} \qquad m \quad + \text{test} \quad = \text{thest} \quad \text{examples}.$$

$$X = \begin{bmatrix} x^{(i)} & x^{(i)} & \dots & x^{(m)} \\ x^{(i)} & x^{(i)} & \dots & x^{(m)} \end{bmatrix}$$

$$X = \begin{bmatrix} x^{(i)} & x^{(i)} & \dots & x^{(m)} \\ x^{(m)} & \dots & x^{(m)} \end{bmatrix}$$

$$Y \in \mathbb{R}^{n_{x}}$$

$$X \in \mathbb{R}^{n_{x}}$$

$$X \in \mathbb{R}^{n_{x}}$$

$$X \in \mathbb{R}^{n_{x}}$$

$$X \in \mathbb{R}^{n_{x}}$$