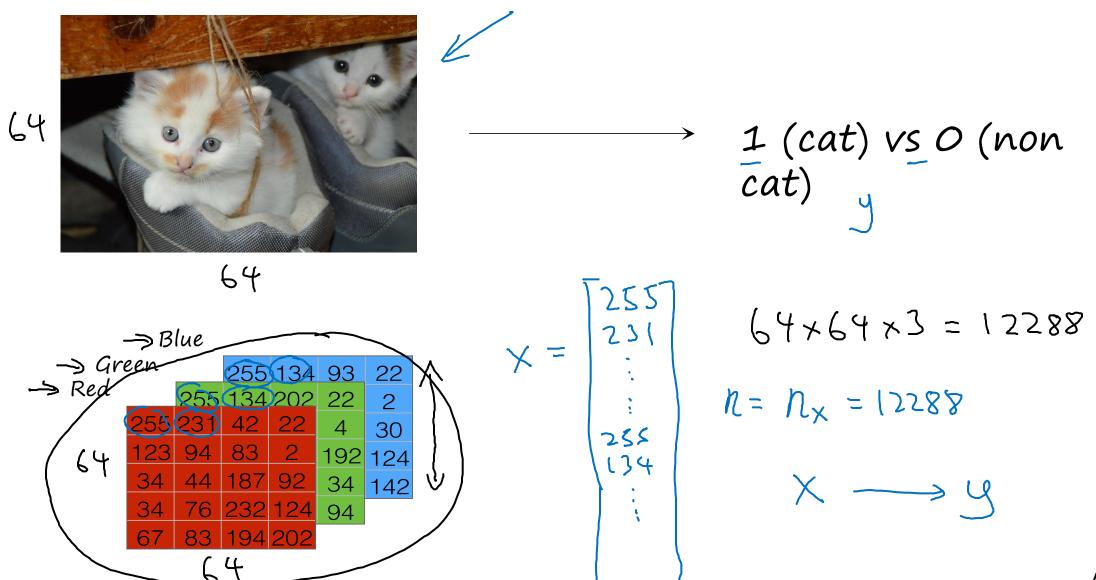


deeplearning.ai

Basics of Neural Network Programming

Binary Classification

Binary Classification



Andrew Ng

Notation

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

$$m \text{ training evarples}: \{(x^{(i)}, y^{(i)}), (x^{(i)}, y^{(2i)}), \dots, (x^{(m)}, y^{(m)})\}$$

$$M = M \text{ train} \qquad M \text{ test} = \# \text{ test examples}.$$

$$X = \begin{bmatrix} x^{(i)} & x^{(2i)} & \dots & x^{(m)} \\ x^{(i)} & x^{(2i)} & \dots & x^{(m)} \end{bmatrix}$$

$$X = \begin{bmatrix} x^{(i)} & x^{(2i)} & \dots & x^{(m)} \\ x^{(m)} & x^{(m)} & \dots & x^{(m)} \end{bmatrix}$$

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

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