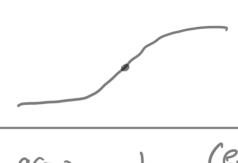
Stanford CS229 Lecture - 3

Peruptron



$$g(z) = \frac{1}{1 + e^{-z}}$$
 (Sigmoid function)
$$h_{\theta}(x) = \frac{1}{1 + e^{\theta^{T_z}}}$$

Formula

$$\theta_{j} := \theta_{j} + \alpha \left(y^{(i)} - h_{\theta} z^{(i)} \right) x^{(i)}$$

$$\downarrow > 0 \quad \text{Colgorithm got it orget}$$

$$\Rightarrow 1 \quad \text{Colgorithm is woorg}$$

$$\text{Output} \leftarrow y^{(i)} \text{ can be only } 0.51$$

$$\text{Prediction} \leftarrow h_{\theta}(x^{(i)}) \text{ can be only } 0.51$$

