

· Gradients of cost punction olf y= +(x) ≥ 1: $\frac{dJ_{i}}{dw_{k}} = 2\pi w_{k} + \frac{dJ_{i}}{db} = 0$ else:

$$\frac{dJi}{dWx} = 2\lambda Wx - 4i \cdot x = 4Ji = 4i$$

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· Update rule

· For each training sample 2:

$$W = W - \alpha \cdot dw$$

 $b = b - \alpha \cdot db$