eccentititititi

< Gradient Descent for Logistic Regression cost Function>

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objective: minimize J(w,b)

* J(以b)는 convex 이므로 gradient descent 主 野川 科의 paameter 以, 好 発力治

repeat {

$$W_{j:=} W_{j} - \alpha \frac{\partial}{\partial W_{j}} J(\overrightarrow{w}_{b}) \longrightarrow \stackrel{\partial}{\partial W_{j}} J(\overrightarrow{w}_{b}) = \stackrel{I}{m} \stackrel{M}{=} (f_{\overrightarrow{w}_{b}}(\widehat{z}^{(i)}) - y^{(i)}) \mathcal{X}_{j}^{(i)}$$

simultaneous applates

위 취임한 보다면 linear regression의 gradient descent와 동일

Inear regression
$$f_{\vec{w},b}(\vec{z}^{(1)}) = \vec{w} \cdot \vec{z} + b$$

logistic regression $f_{\vec{w},b}(\vec{z}^{(1)}) = \frac{1}{1+e^{-(\vec{w}\cdot\vec{z}+b)}}$