errection and the second

(Regularised Logistic Regression)

* Logistic Regression Model

* cost fundtion

$$|J(\vec{x},b)| = -\frac{1}{m} \sum_{i=1}^{m} \left[y^{(i)} log(f_{\vec{x},b}(\vec{z}^{(i)}) + (1-y^{(i)}) log(1-f_{\vec{x},b}(\vec{z}^{(i)})) \right] + \frac{\lambda}{2m} \sum_{j=1}^{n} w_{j}^{2}$$

objective: min J(w,b)

* gradient descent

repeat {

3 stmultaneous update

derivative
$$\int_{m}^{m} \left[f_{n,b}(\bar{z}^{(i)},y^{(i)})z_{i}^{(i)} \right] + \frac{\lambda}{m} w_{i}$$

$$\int_{m}^{m} \left[f_{n,b}(\bar{z}^{(i)},y^{(i)})z_{i}^{(i)} \right] + \frac{\lambda}{m} w_{i}$$

(not linear regionssion