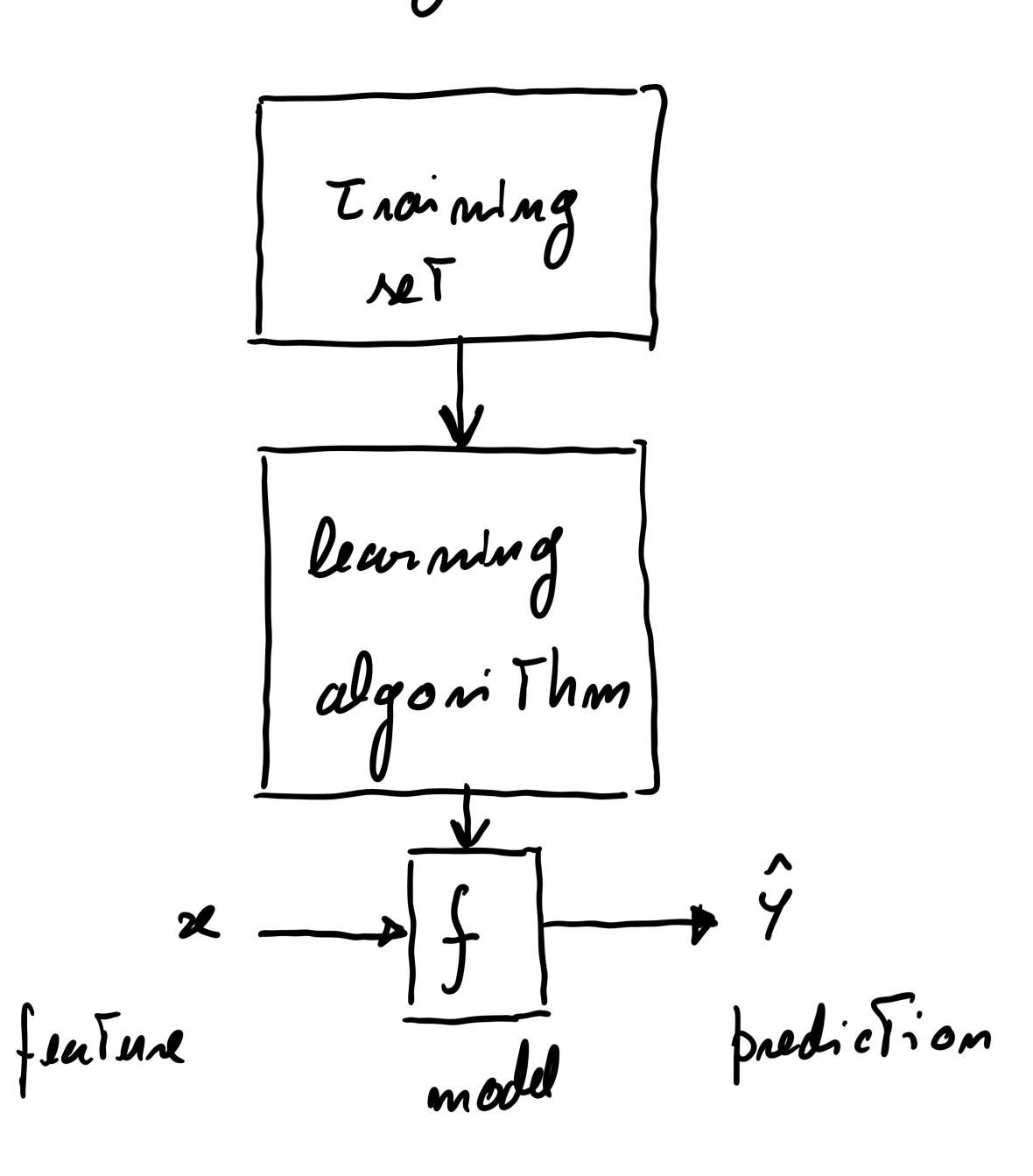
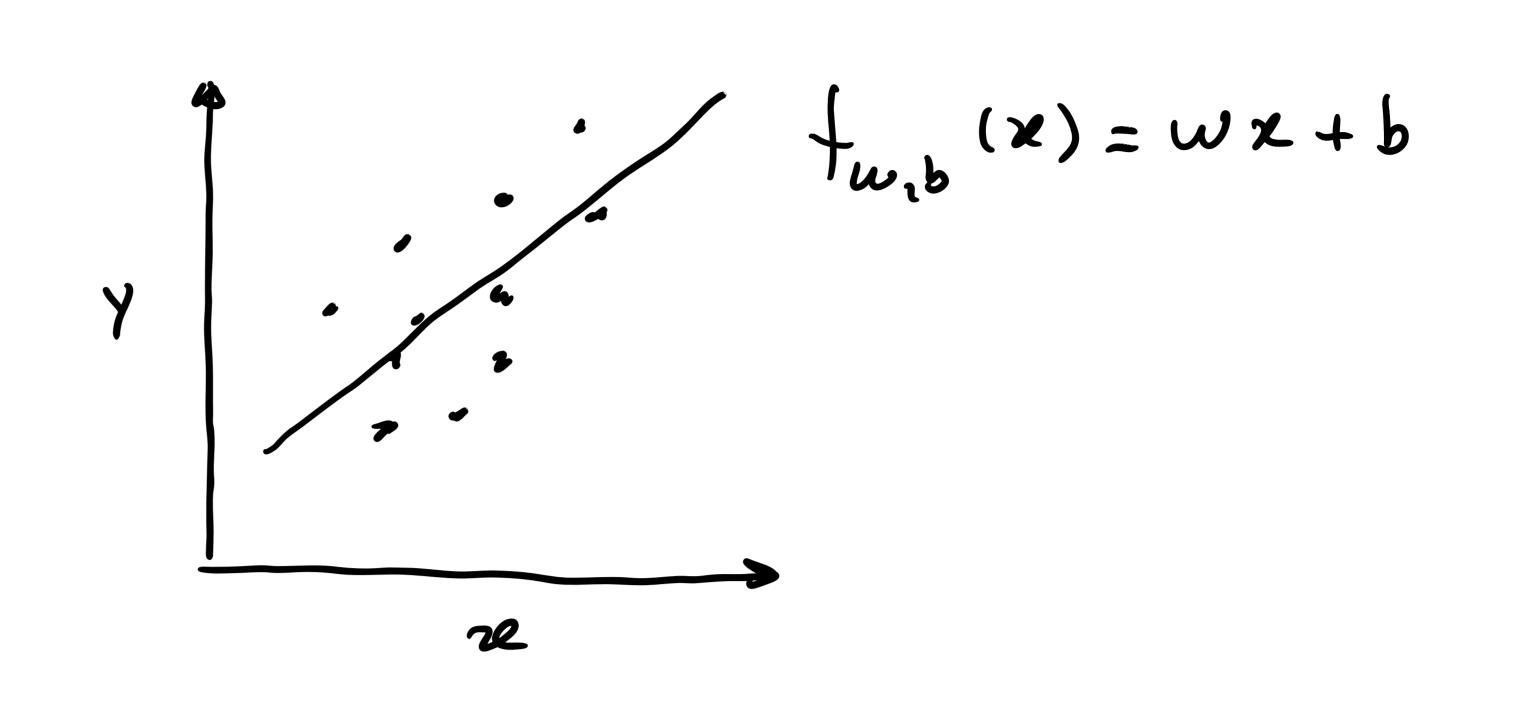
- Linear Megneusion



· How to represent f?



- POST Function

$$Y^{(i)} = f_{\omega_1 b} \left(u^{(i)} \right)$$

$$f_{\omega_1 b} \left(u^{(i)} \right) = \omega_1 u^{(i)} + b$$

$$f_{\omega_1 b} \left(u^{(i)} \right) = \omega_1 u^{(i)} + b$$

$$f_{\omega_1 b} \left(u^{(i)} \right) = \omega_1 u^{(i)} + b$$

· Ignard Erron Cost Fundion

m=mumber of Training examples

$$J(w_{16}) = \frac{1}{2m} \sum_{i=1}^{m} \left[\hat{y}^{(i)} - y^{(i)} \right]^{2} - \omega \operatorname{Cost} \operatorname{Fundion} : \operatorname{squared} \operatorname{ennorm} \operatorname{cost} \operatorname{fundion}$$

$$J(w_{1b}) = \frac{1}{2m} \sum_{i=1}^{m} (f_{w_{1b}}(x^{(i)}) - y^{(i)})^{2}$$

parameters - w, b

$$cost function - o)(w_1b) = \frac{1}{2m} \sum_{i=1}^{m} \left[f_{w_1b}(u^{(i)}) - y^{(i)} \right]^2$$