-> feature - x , label-y or hg(x) -> to be predicted as y -> hg(x) = lo + lix , where D are parameter (mpothers)

-> Cost function: $\frac{1}{2m} = \frac{m}{2} \left(u_0(x^{(i)}) - y^{(i)} \right)^2 = J(\theta_0, \theta_1)$

This is called the squared error function.

-> Gradient Descent!
repeat until connergence

 $\theta_i := \theta_i - \propto \frac{\partial}{\partial \theta_i}$ $\int_{-\infty}^{\infty} \frac{\partial}{\partial \theta_i} d\theta_i$ [Simultaneously Borale]

- here,

repeat until convergence

< This is written after caliblatine derivatives manually >

- -> The cost function is convex, so it does not matter where we start. So we can randomly will comesse to same pront. intrabre. It
- Handomly initialize train using grad descent (batch)

GET MODEL

- when more than I feature J= 00+ 01x,+02x2 on n Learnable weights=n + intercept = total (n+1) took to together I !! in the steps of gradient desunt 1 parametert roma barouge de ballo si sout paran 1

Paran 1

Paran 1 2 parametimer/ Geasure More than 2 parameters, cannot virualize.
This is called Multiple Regression.