Wh2 Ser4: barlet desset to lean w, 6

$$\hat{y}=\sigma\left(w^{q}\alpha+b\right), \sigma(z)=\frac{1}{4e^{-z}}$$

$$J(v,b) = + = + (\hat{g}(i), y(i))$$

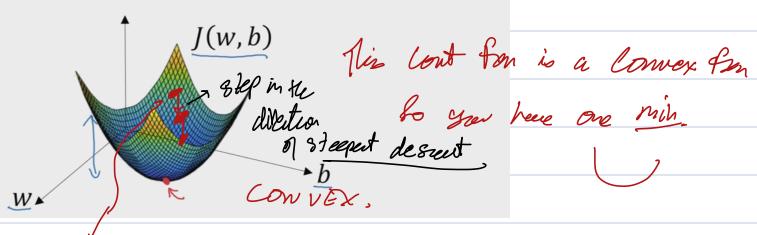
$$= -\frac{1}{m} \int_{i=1}^{m} y^{(i)} \log y^{(i)} + (1-y^{(i)}) \log (1-y^{(i)})$$

huit to puince W, b to mining J(w, b).

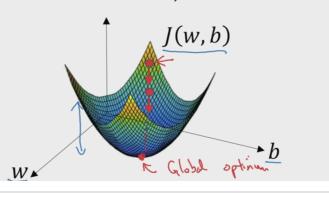
I hayce for now well, bell,

J(W, b)

Want to find w, b that minimize J(w, b)

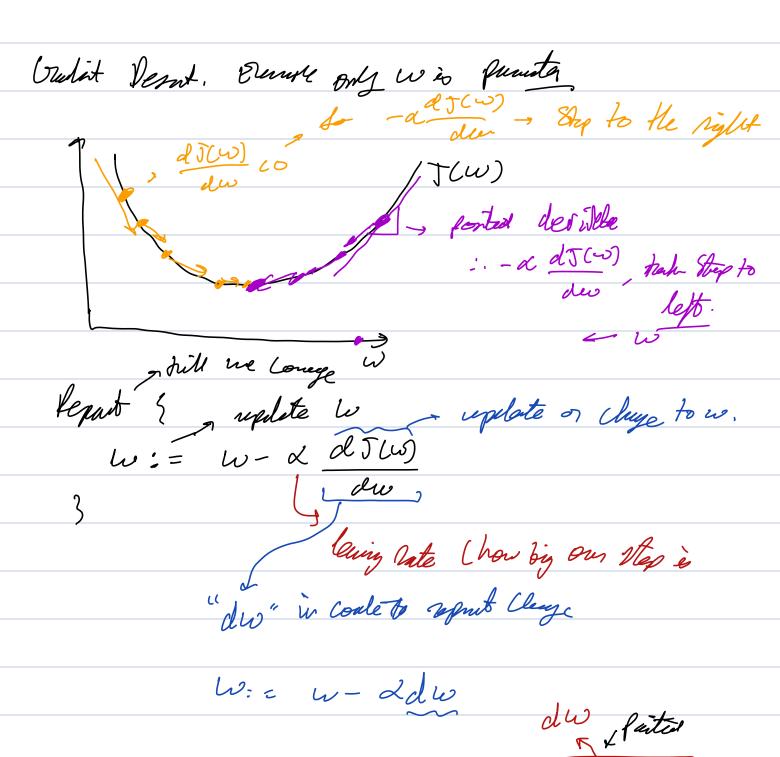


With w, b to Dadon (budy 0) In gro Fren is Concex, & no netty where you Must, you got the option



D # 4

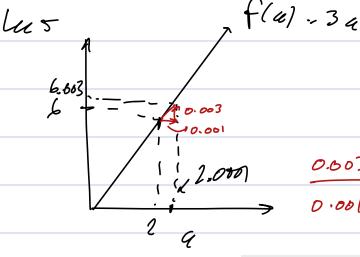
JW, b) =



w:= w- 2

utal update you person in the log.

La Jad 6. : Perivatives

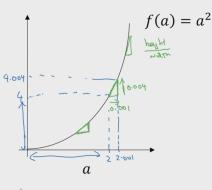


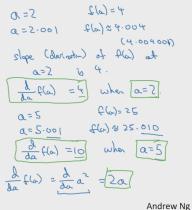
0.00) heft Non (deritated) of the

at a=2 63

Intuition about derivatives

fact. f(a) = a² f'(a)= Za. de Flat = d e2=2a.





Gy you put in volu, got Schope at Shat put d (og (w): 1