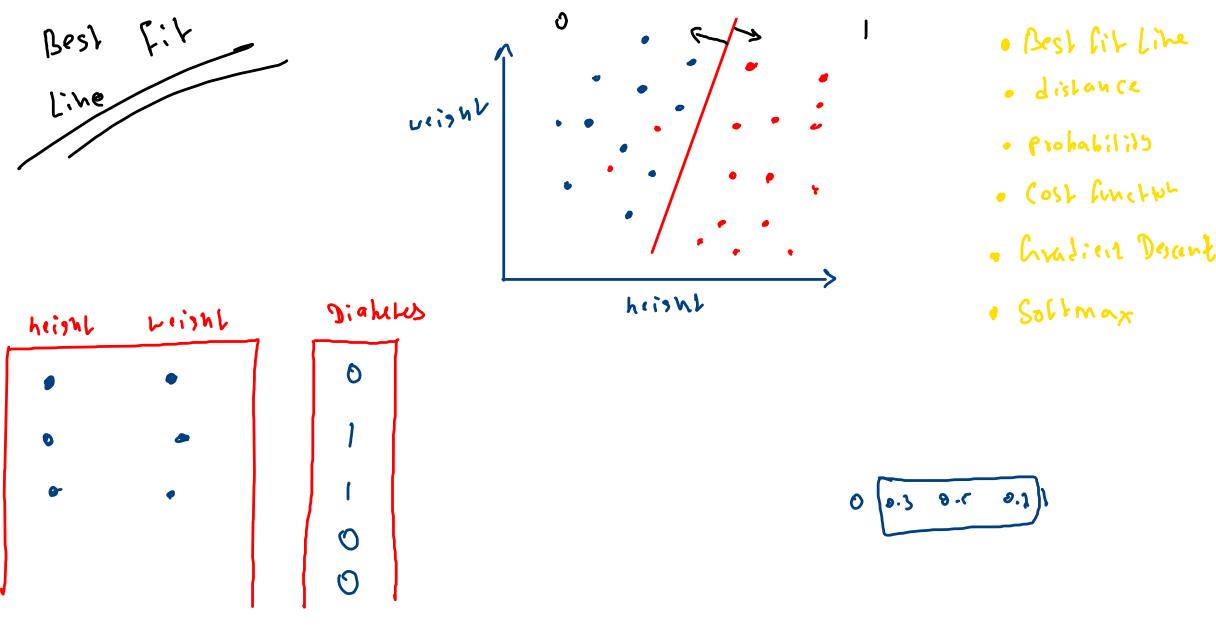
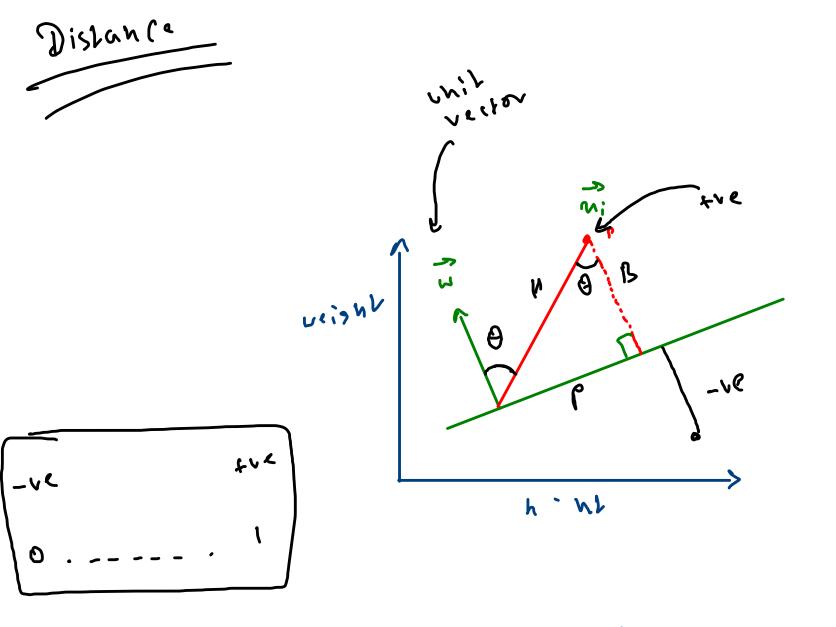
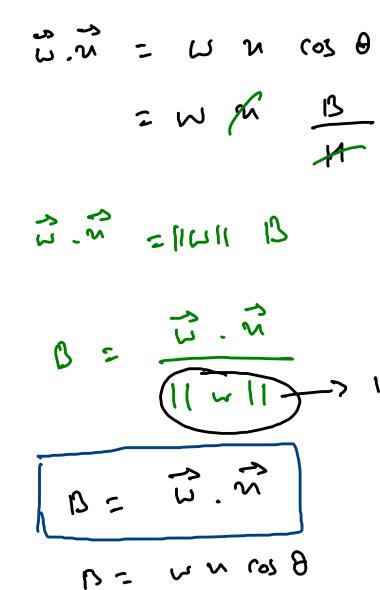
Logistic Regression -> Binary Classification

Assumption -> linearly seperable





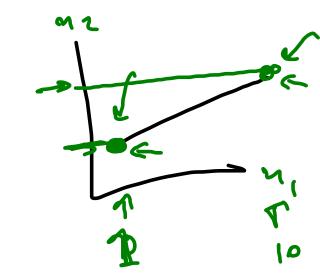


Plohabilils Sigmoil (m) 0(2) distance 0 တ 0.4 30 0.6 3 0.5 0 0.5 0 0.4 0.3 0 **.** &

cost function Yorkel o (WIM+b) (05 h (as) -109 [1- (a(my))] -109 [a-(m)]

1 [(w m + b) - yactusi | 24 Coll lancton 1 (Mitchetter Zislana = Wintb prohabilits=o-(1:52ana

 $Jislana = W^{1}n + b$ $0 = M_{1}n_{1} + M_{2}n_{2} + k$ $-M_{1}n_{1} + b$ $-M_{2}n_{1} + b$



M L C lim + logistic

F Constant

C Constant

Solution

Solvier Mouris

Rosen Mouris

Connectify

Linkez, Tommer har dor

Sollmax hish Yest a (open) = en the the 1 -> nyquelit

$$\sigma(\text{fil}) = \frac{e^{w^{1}n}}{e^{w^{1}n} + e^{w^{2}n}}$$

for all

classes

inslan (9