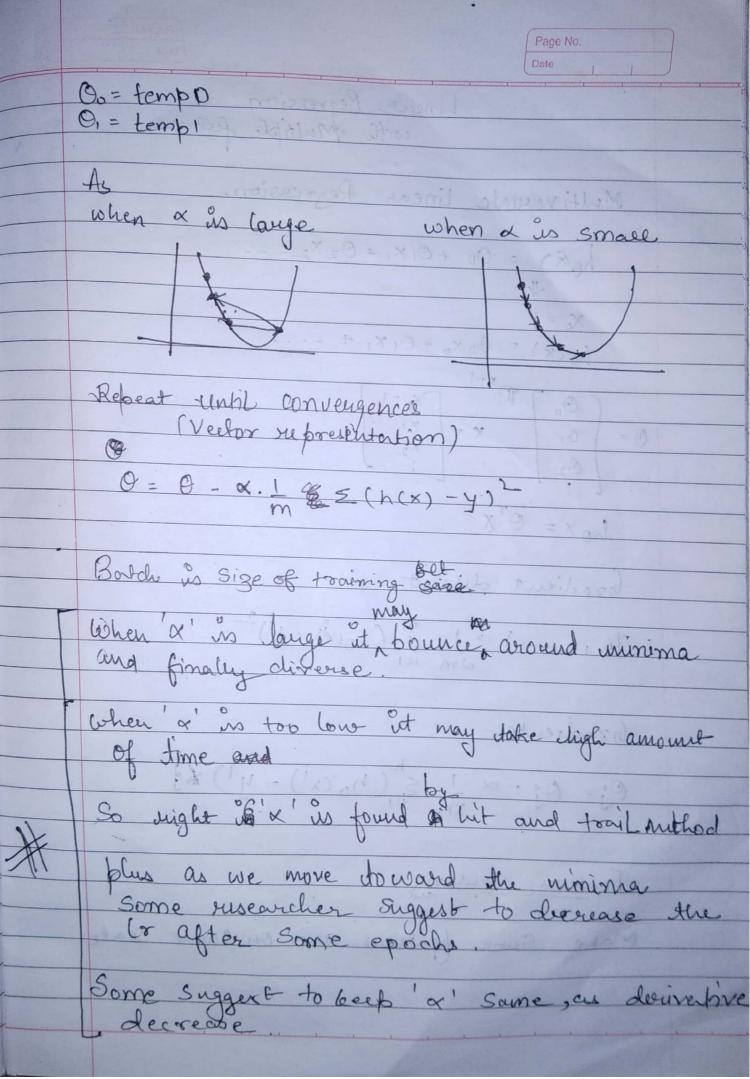
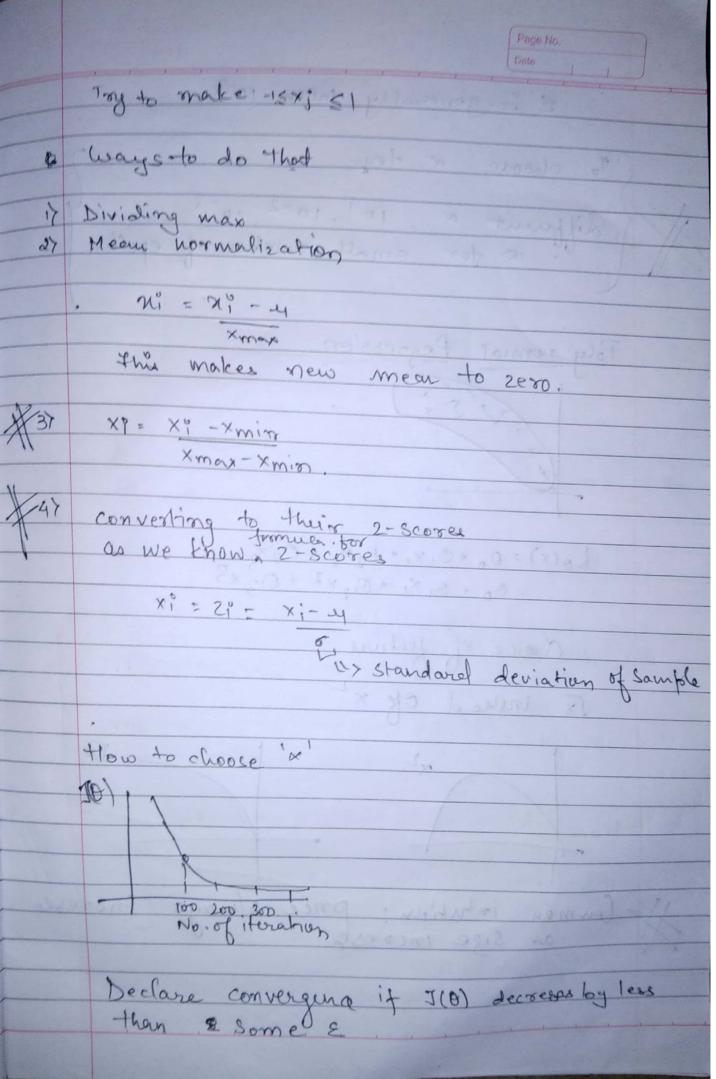


Page No. rypothisis gives me curve Cost purhon give me corre for that hypothesis.

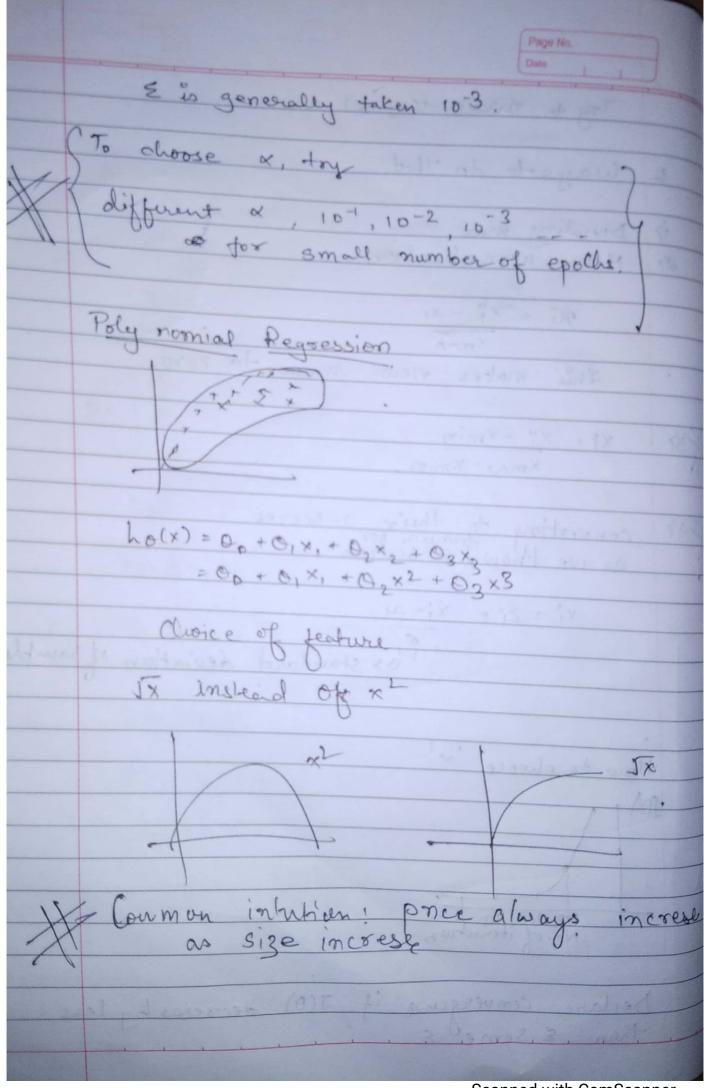
Ouve of cost function is called correr curve Learning algorithm: fraidien that minimize the Training set Learning algorith Size of hypothusis -> Estimated price Gradient Descent Outline. o beefo Oo, O, to suduce J(Oo, O) until we hopefully end up at nine mun represe util convergence ? Oj=Oj - x 2 J(O0, Oi) | for 00/21 pud jed tempo (\$0 = 00 - 0 & J(00,01) temp1 = 01 - x & J(00,01)



Page No. Linear Regression with Multiple feature Multivariate linear Regression. hox) = 00 +01x, +02x2--ho(x) = 00x0+01x1+ --Gradient discent Joo 10, --) = 1 & (ho(x) - y)2 Oj= O; - x 1 5 (ho(xi) - yi) x3 Feature Scaling Make Sive features are on same scale



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Page No. Date
Loss function / Cost function
MSEIRMS
Loss function. Cost function MSE/RMS why RM MSE/Mis preferred over other
other possible cost junction
$MAE = \frac{5 \left h_0(x) - y^2 \right }{m}$
mean log error = = = y: log & ho(xi)
m
MSE is breffered over other losses because
ut penalises object for from susult more
it penalises object for hom susult more than object near to by label.
MAR peanalizes all distance equally.
mean log error us genarally known as
Coose entropy loss used in classification
Coors entropy loss used in classification task. It brenevally how
MBE D:
Menn Bias error
Gareralle and when need to late
Generally used when need to aletermine wood model have positive or negative mask
$MBB = Z_{12}^{n} (y_i - \hat{y}_i)$
n
J' = ho(x)