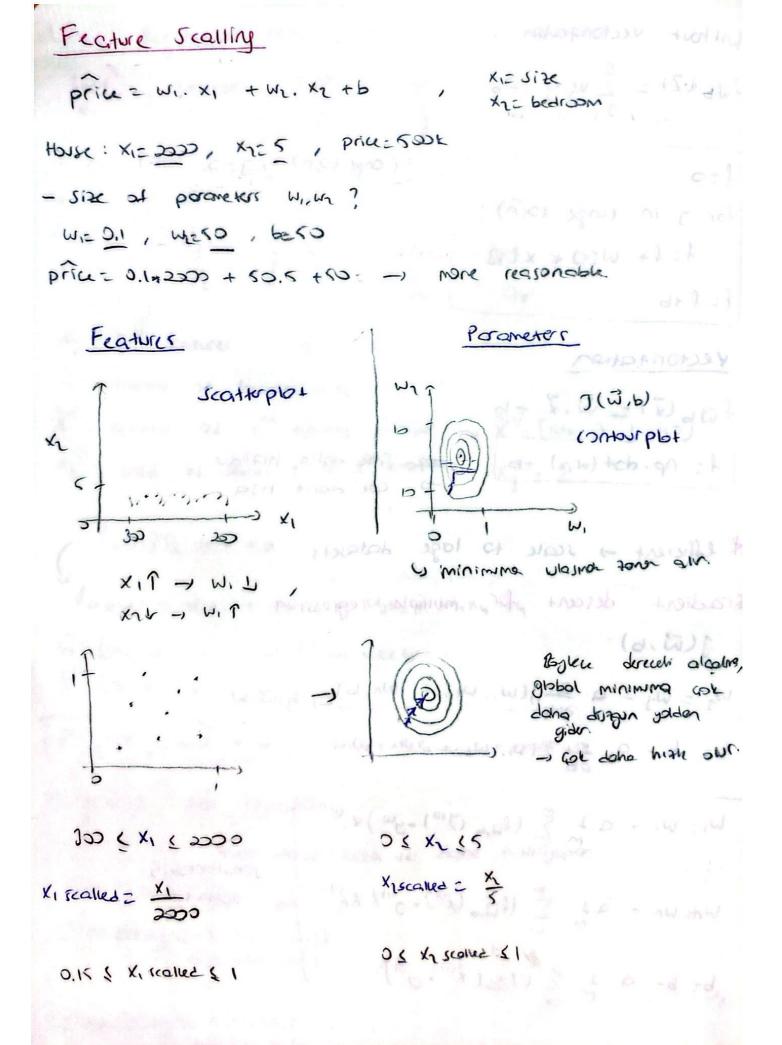
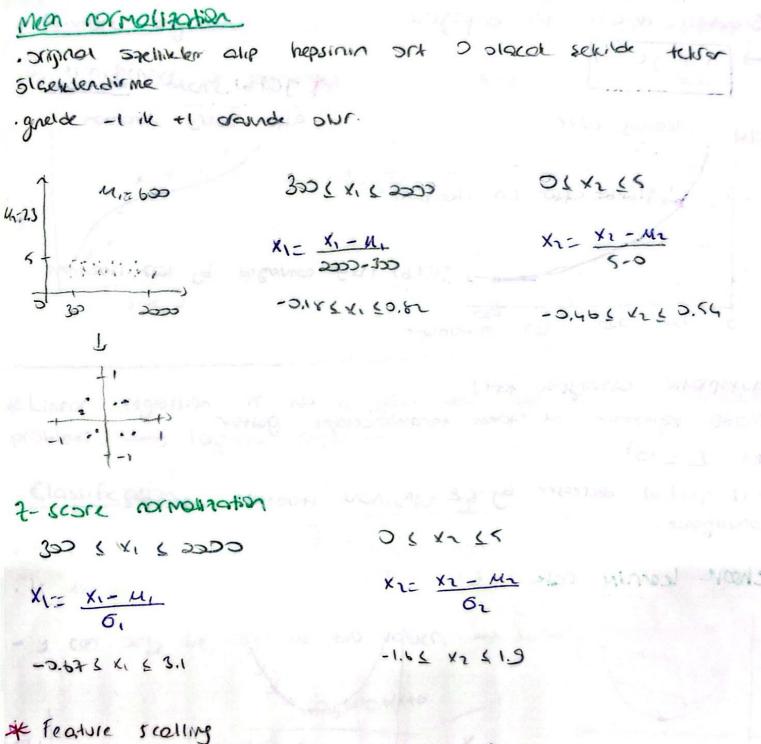
Linear Regression with Multiple featurer (variables)				
feet	bedroom	floor	age	price of the action of
X	Xz	×3	×q	asyonul tro
2104	5	1	45	460
14 16	3	2	40	232
15 34	3	ı	35 M	3/8 month 111601
857	1 2	6 - 11	1 36	178 CHUR SE PON
Xy = Jth featurer J= 1,4				
n= number of features -, 4				
X(i) = features of it training excomples -> X(v = [1416) 2 40]				
$x_3^{(i)} = value of feature 7 in its example x_3^2 = 2$				
$\int_{W_1b} (x) = x x + b$ $\int_{W_1b} (x) = w_1x_1 + w_1x_2 + w_2x_3 + w_1x_4 + b$ $\widetilde{W} = [w_1, w_1, w_2,, w_n] - vektor $ $\widetilde{X} = [x_1, x_2, x_3,, x_n]$				
[file (x) = W. x. + Wh x + + + Wh xh +b				
multiple linear regneration				
Vectorization: kodu dono kisa ve dona hizli jopon				
	nut tiom			
W= np. aray ([1.0, 2.5, -3.3]) was was was b=4				
χε πρ. αιτας ([10, 20, 30]) χεπ κει χει χει				

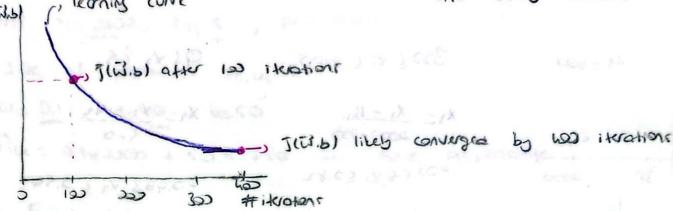
but hout vectorization: forb(x) = = = wxx +6 (orge (0,n) -> 7=0,..., n-1 f=0 for I in longe 10, n); 15t+ M(1) * X(1) fiftb 2 yulton vectoria ation LONGOLLOSL ものしば)こび、え +6 1= np. dot (w,x) +b cox dehe hisa of efficient - scale to large datasets 6. radient descent for multiple regression J(W,6) Wy = Wy - a 3 J(W, W, ..., Wn, b) [, J(W, b) b= b- a. 3 J(w, W2, ..., Wn, b) MI= WI - a. L & (fa, b (x") -y") x," Jimu Honcously Wnzwn - Q. I & (FW, (X(i)) - g(i) Xn update 1 = Laviani 1) bz b- a 1 2 (+a, (xa) - ya)





of JW,61 shows decreak

remonitoring

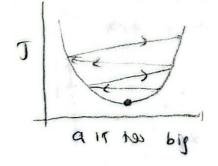


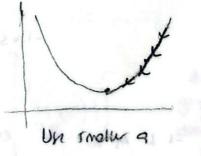
Automotic convergence text?

-modeli egitmenin me tonomioricagini gosteri.

-i it This, b) decreoter by EE in one iteration, idectore convergence.

chook learning rak

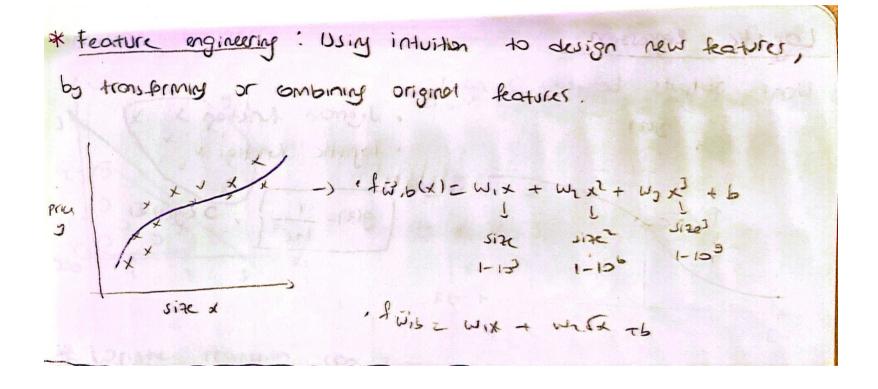




a lot more strations to consuge

Value of a (Alphe) to ty;

J(ii) de0.01



Scanned with CamScanner