Geradient Descent box Multiple variable : 05:=0;-~ 1 (ho(x)-y'. 2; coay 1; Feature Scaling: -> voviable feature range can vory -> its the scale is almost similar, it Force example, 20, 50 ange: 0 to 20,000 -0 5000 5120 Deg starge: 1 to 5 it staled: counter plot: calculate Seature sealing: ve get range noscorally: -1 < 20 1

Way 2 - 1 Mean novembertion: Novamatized value := input value - mean value Zi-Mi Example: mean= 1000 Roange : 200 to 2000 = 1900 Proce = ? Dei := price -1000 1900 of them to improve teatures? (1) combine multiple beathers into one. eg > & æg = highest, æg = width, æg = æ1xæ2 2) Polymormial segression: 4-a+be+cze so we better de the square scoot à og. y: a+bde+e. Vdeg!

Geradient Descent VS. Normal equation: B-(XX)-D-> need to choose > no need at a kavening reate. > need many iterrations > no need to iterate > complexity O(kn2) > complexity O(n3) inverge of (XX) -> good it mxn is burge, or lot of Good it is small beatures, eq. 10,000 Mit was pappen (I) may be the why? units are diliterent 201 = 512e in Let 2 deg = u u m D too many deatures.