

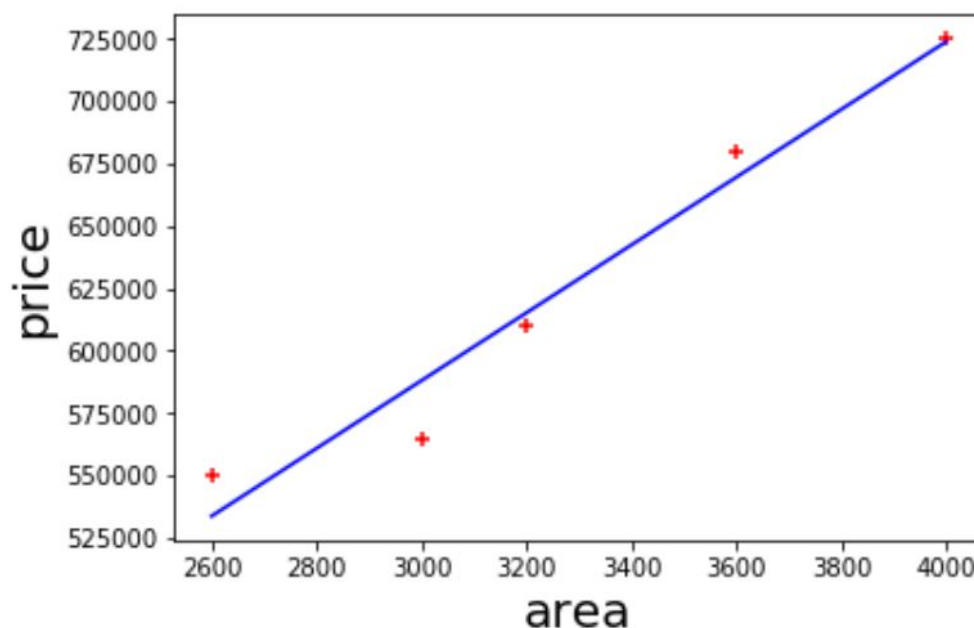
linearReg with 1 var

House Price Prediction in Monroe Twp, NJ (USA)

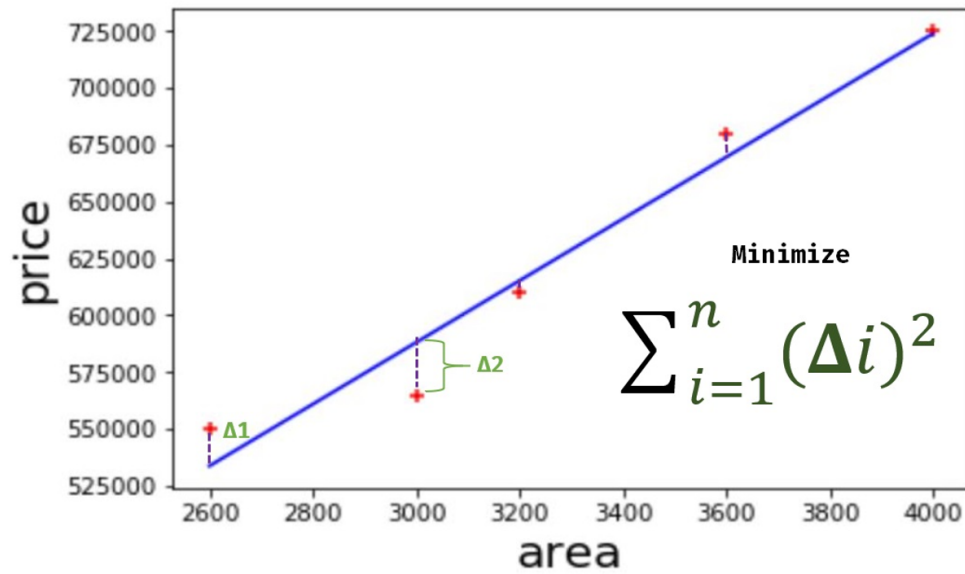
area	price
2600	550000
3000	565000
3200	610000
3600	680000
4000	725000

Problem Statement: Given above data build a machine learning model that can predict home prices based on square feet area.

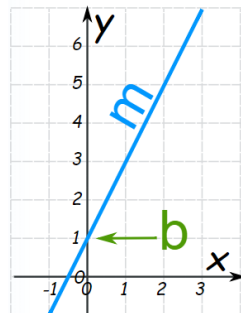
points represented using a scatter plot & draw a best fit line (chosen by: total sum of error is minimum)



the distance del_1 and del_2 is the euclidian distance
mean sq. error (the min. the better)



house price = m * (area) + b



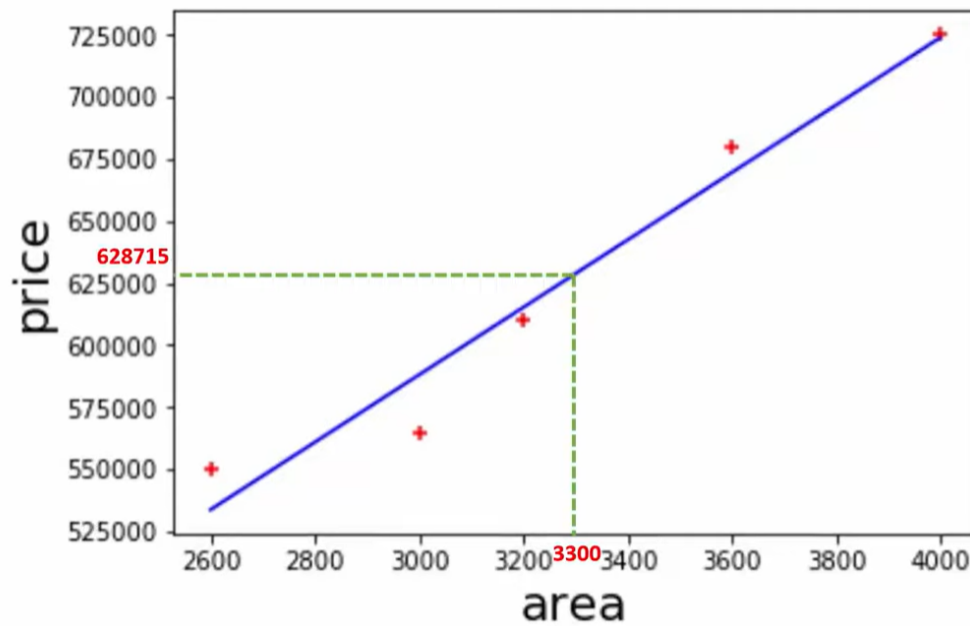
price = m * area + b

$y = mx + b$

m Slope (or Gradient) b Y Intercept

Reference: <https://www.mathsisfun.com/algebra/linear-equations.html>

price prediction for the are 3300 sq. feet



Per capita income prediction in the year 2020 in Canada