

Machine Learning with Python: Linear Regression Single Variable

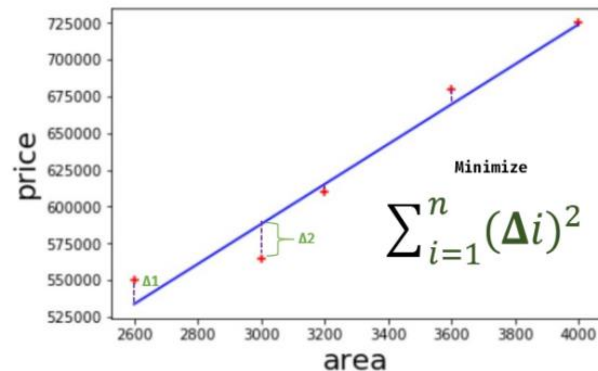
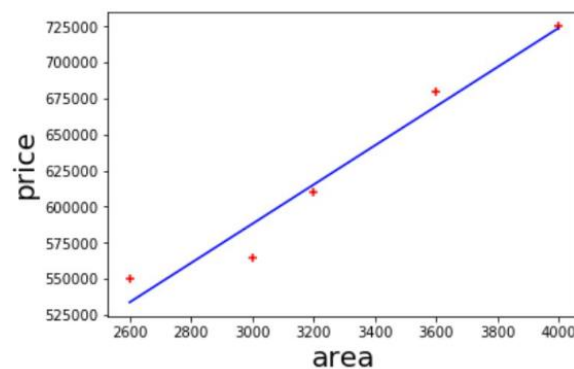
Sample problem of predicting home price with available home sizes as input.

Below table represents current home prices based on square feet area.

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

Problem Statement: Using given above data build a model that can predict home prices based on square feet area. (Train a model using concept of Machine learning)

In the notebook, create a scatter plot to represent house prices based on house sizes, with the values shown as red markers. Additionally, a straight line, which best fits the data points on the chart, is drawn using linear regression to model the relationship between house size and price.



You can draw multiple lines like this but we choose the one where total sum of error is minimum.