Linear regression

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Accuracy = measure of exactness

A 6534 P 6531.4

$$E = \frac{1}{n}\sum_{i=1}^{n}(y_i - \hat{y}_i)^2$$

Error gets impacted by level of target Attribute

Price of a pen $5 to $50

(C1) E = $200

Predict price of a home $100k to $500k

(C2) E = $2000

coefficient of determination $R^2 = 1 - \frac{MSE}{VAR}$

$$R^2 = 1 - \frac{\frac{1}{n}\sum(y-\hat{y})^2}{\frac{1}{n}\sum(y-\bar{y})^2}$$

y = Actual value

$\hat{y}$ = predicted value

$\bar{y}$ = mean of y