



To get minimum value of \$ 355 for \$0 and \$1, partial derivative of 355 wint \$0 and \$1, must be equal to 0 $\frac{3556}{3} = 0$ $\frac{355}{3} = 0$ $\frac{3}{3} = \frac{5}{3} \left(\frac{1}{3} - \frac{1}{3} - \frac{1}{3} \right) = 0$ $\frac{3}{3} = \frac{5}{3} \left(\frac{1}{3} - \frac{1}{3} - \frac{1}{3} \right) = 0$ $\frac{3}{3} = \frac{5}{3} \left(\frac{1}{3} - \frac{1}{3} - \frac{1}{3} \right) = 0$

 $\frac{\hat{x}}{\hat{y}} = \frac{\hat{y}}{\hat{y}} = \frac{\hat{y}}{\hat{y}$

There are a corner cases that could be observed. Training dataset in relatively anxiepresentable. It means that the training dataset does not provide sufficient information to bear the problem; relative to the validation set used to evaluate it. This may occur if the training dataset has too fear examples as compared to validation dataset.

Undation dataset is relatively unrepresentative. It means that the validation dataset does not provide enough information to evaluate the ability of the model, to generalize.

This many man if the validation dataset has two few examples as ampared to the training dataset.

· K- Fold Gross Whidation:

It is one way to improve over the holdout data mithod.

The dataset is divided into K subsets, and the holdout rethod is repeated K-times. Each time, one of the (K-1) subsets is used as tenaining data and the K+ subset is used as the test data. The average power across all the K-trials is computed



The advantage of this nothed is that so nother hour the data gets divided, each data point gets to be in the test dotaset erectly once, and gets to be in the training set K-1 threes. The variance of the resulting ostimate is reduced as k is increased. Disadvantages of this notherd is that the training edgenithm has to nerun from soratch & times, which means that it takes is twis as much computations to make an evaluation, Enclusion > Thus in this assignment, we implemented megalession on the real estate dataset, using R and applied anapts.