RMSE-Root Mean square Root;

SRMSE is the standard deviation of the errors which occus when a prediction is made on a dataset.

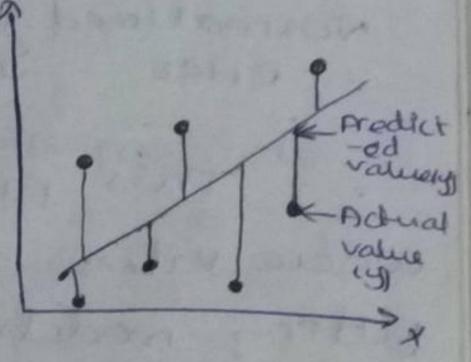
DIt is the standard deviation of the rosiduals. (prodiction orrors).

Desiduals are a measure of how for from the regression line data points are; RHSE 95 a measure of how spread out those residuals. are.

> In other words, it tells you now concentrated the data is around the line of best fit.

> one of the most commonly used measure for evaluating the quality of predictions.

RMSE = \ \frac{1}{121} cpredicted, -Adval; \frac{1}{2} \frac{1}{2}



> In RMSE, the erros are sommed before they are averaged.

-> This bastcally implies that RMEF assigns a night weight to larger errors.

> This andicates that RMSE is much more usepul when large errors are present.

> It avoids teeking the absolute value of The error and this trait is useful in many mathematical calculations.

of mecasules for > one of the most commonly just evaluating the quality of prodictions.

> It snows now pay predictions fall from measured true values using Euclidean distance.

What is a good RMSE value?

=) It depends

model is able to tit a dataset.

Thousever the range of the dataset to we're working wid is important in determining whether or not a given price value is "low" not.

Normalinsing the RMSE Value.

One way to gain a better understanding of whether a corrain price value is "good" is to normalize it using the following formula;

Normalited 3 = PMSE (max value - min value)

This produces a value blw oands where values doses to a represent better bitteng models.

MAE: Mean Absolute Error.

>MPF evaluates the absolute distance of the observations (the entries of dataset) the predictions on a regression, taking the average over all observations.

⇒ we use the absolute value of the distance so that negative errors are accounted properly.

a) It refers to the magnitude of difference between the prediction of an

observation and the true value of that observation.

these metrics tell us how accurate our predictions are and, what is the amount of deviation from the actual values.

en prediction.

MAE = \(\frac{\infty}{\infty} \) CPredicted; -Actual;)

Batch:

The boatch stree is a hyperperameter that defines the no. of examples to work through before updating the internal model parameters.

=> A + raining doctaset can be dea divided into one or more batches.

Epoch'

The no. of epochs is a hyperparameter that defines the number times that the recenting algorithm will work through the entire training dataset.

The training dataset has had an opportunity to update, the internal model parameters.

Datches.

often 100 (or) 1000, allowing the Joaening algorithm to run until the error from the model has been euroriently minimized.