**Cross Validation**

In K-folds cross validation, the data is divided into k equal parts as shown in the picture below. Using the data, k iterations of model building and testing are performed. Each of the k parts is used in one iteration as the test data, and in the other k-1 iterations as part of the training set. At the end, the performance metrics from across the iterations can be analyzed to determine an average, range, standard deviation, or other useful metric.

Cross validation is a technique which involves reserving a particular sample of a dataset on which you do not train the model. Later, you test the model on this sample before finalizing the model.

Here are the steps involved in cross validation

* You reserve a sample data set.
* Train the model using the remaining part of the data set.
* Use the reserve sample of the data set (validation) set. This will help you to know the effectiveness of model performance. If your model delivers a positive result on validation data. Go ahead with current model

