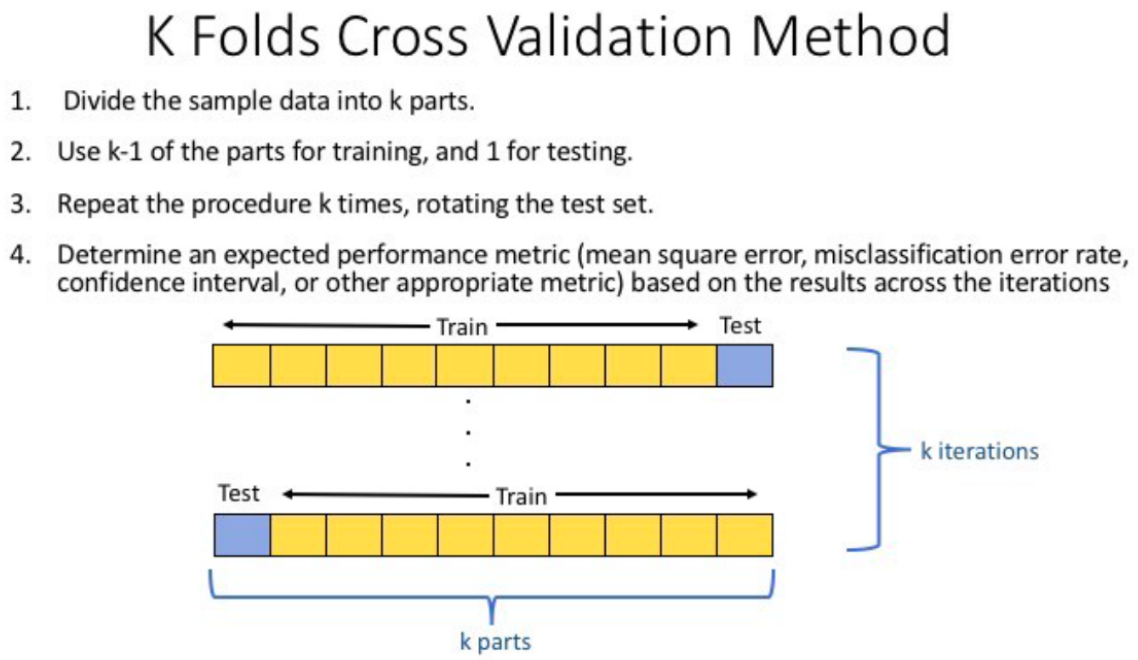
Resampling Strategy!
https://www.analyticsvidhya.com/blog/2022/02/different-types-of-cross-validations-in-machine-learning/

1. Holdout Method
   train-test
   error estimation
2. K-fold Cross Validation



   train-validation
   error is averaged for all k trials to determine the efficiency
   minimizes bias
3. Stratified K-fold Cross Validation
   unbalanced data set
   hyper-parameter adjustment
   each k sample has equal outputs
4. Leave P-Out Cross Validation
   leave p data points
   train the model using n-p data points
   validation using p data points
   repeat for all possible combinations

Cross Validation in Continuous Model Training
https://stats.stackexchange.com/questions/519282/what-use-is-a-test-set-in-a-continuous-training-setting

- After initial training, generalization performance was estimated based on a held out test set.