

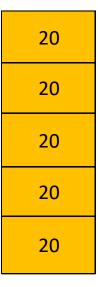
- **□K Fold Cross Validation**
- □Under-fitting
- □Over-fitting



Cross-validation is a resampling procedure used to evaluate machine learning models on a limited data sample.

The procedure has a single parameter called k that refers to the number of groups that a given data sample is to be split into.

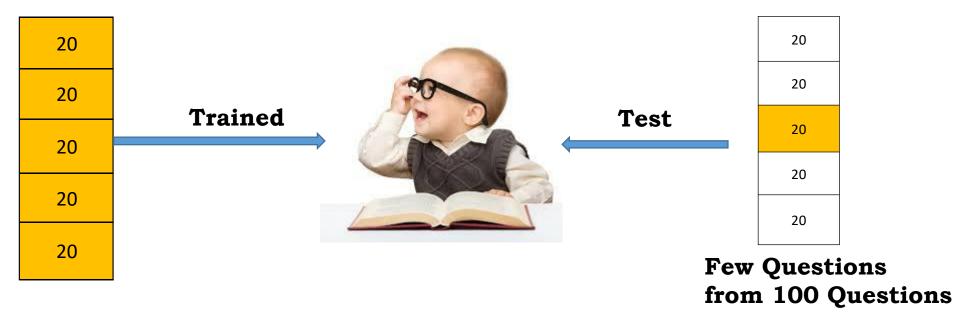
Training



100 Math Questions



Option-1Re-Substitution



100 Math Questions



Option-2 Holdout

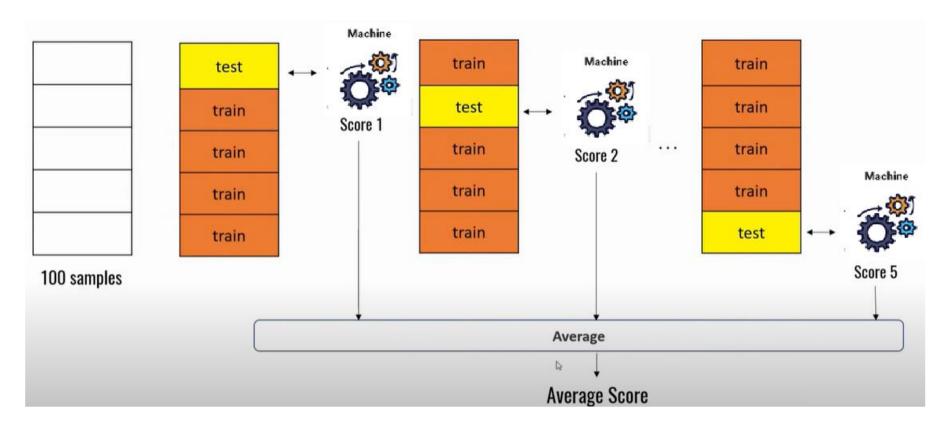


80 Math Questions From 100 Questions



Option-3 K Fold Cross Validation

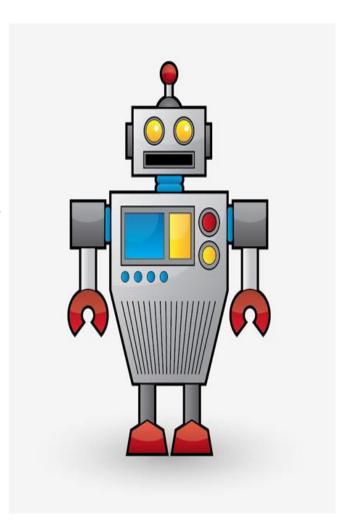
Here, K=5







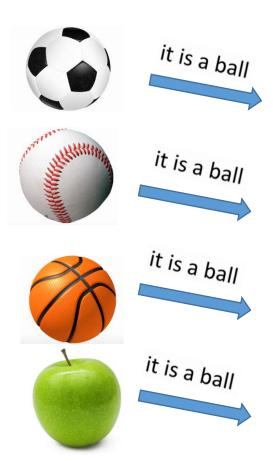
hey! these are balls. you can see, all of these are round shape.

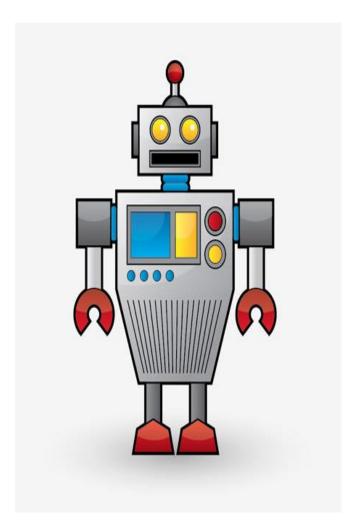














Option-2 Holdout

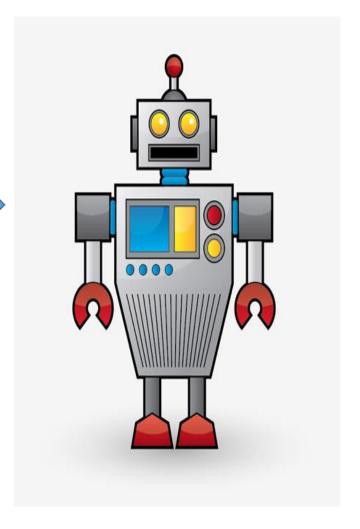


80 Math Questions From 100 Questions





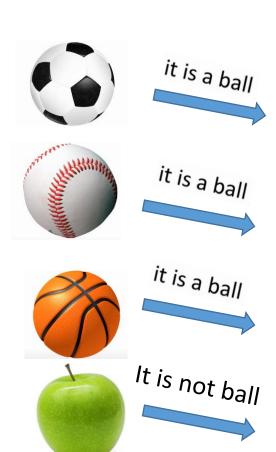
- round shape
- you cannot eat ball
- you can play with ball

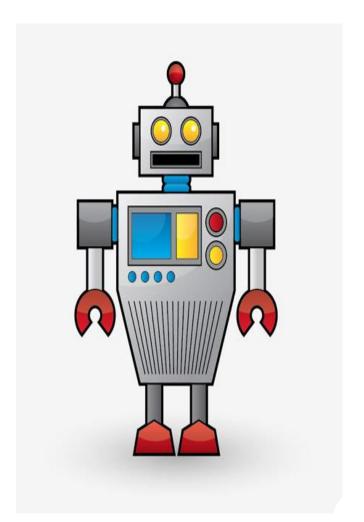




Test

Solved Underfitting



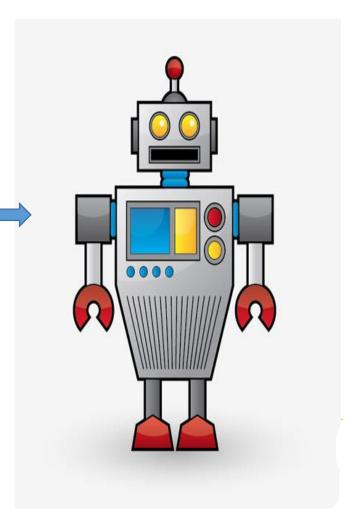




Overfitting



- round shape
- you cannot eat ball
- you can play with ball
- ball has stitch
- greater than 70mm in diameter





Overfitting



it is a ball



it is a ball





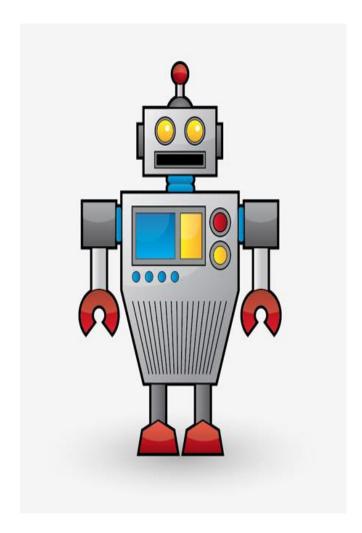
it is a ball



It is not ball



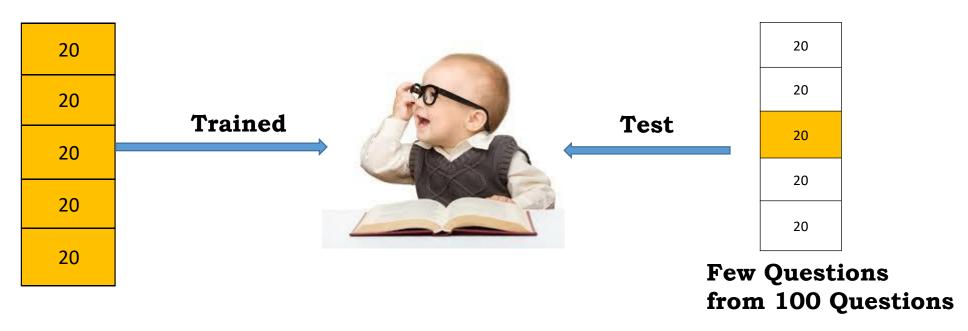
It is not ball





Overfitting

Option-1Re-Substitution



100 Math Questions