

- **□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



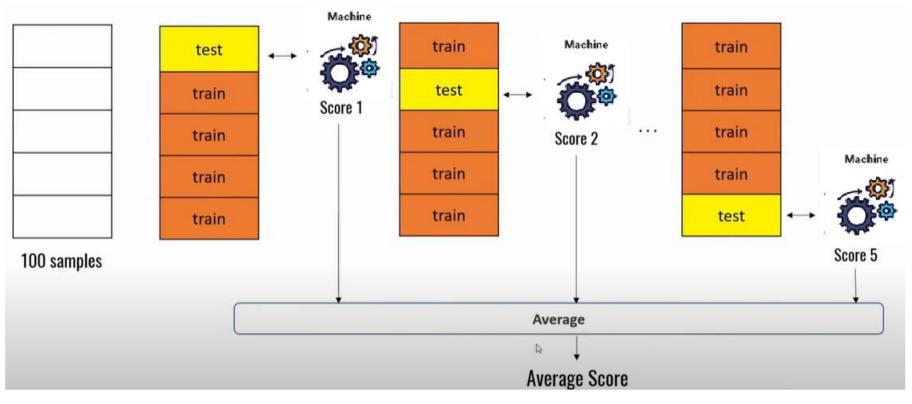
80 Math Questions From 100 Questions





Option-3 K Fold Cross Validation

Here, K=5

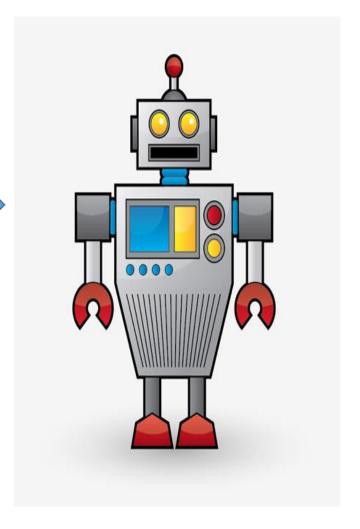








hey! these are balls. you can see, all of these are round shape.

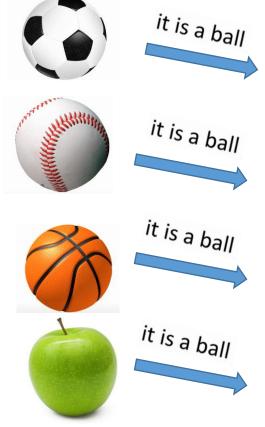


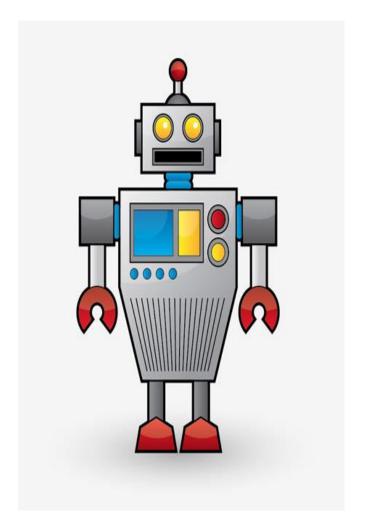
















Option-2 Holdout



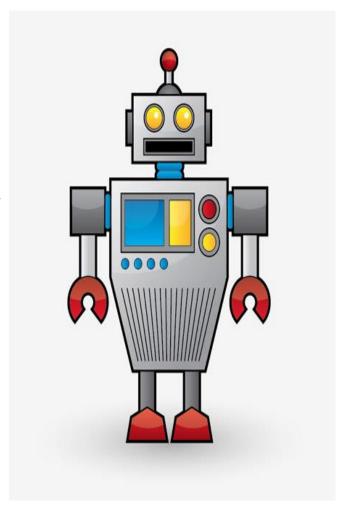
80 Math Questions From 100 Questions







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



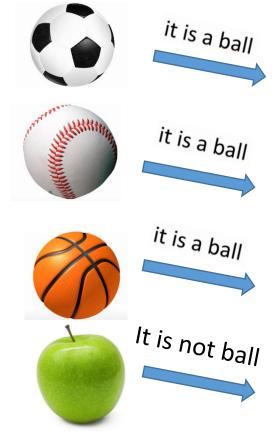


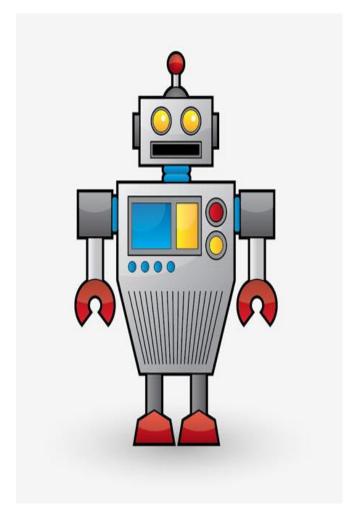


Solved Underfitting



Test





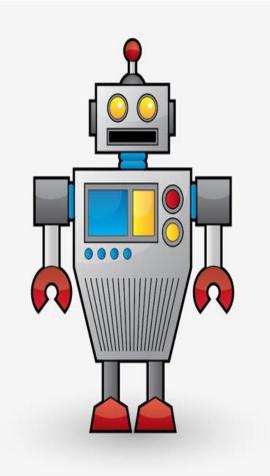




Overfitting



- 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





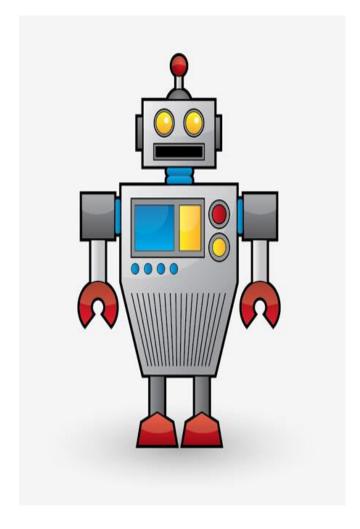
it is a ball



It is not ball



It is not ball







Overfitting

Option-1Re-Substitution



100 Math Questions

