Hyperparameter Tuning With Cross Validation

↳ Finding the best parameter while training the model.

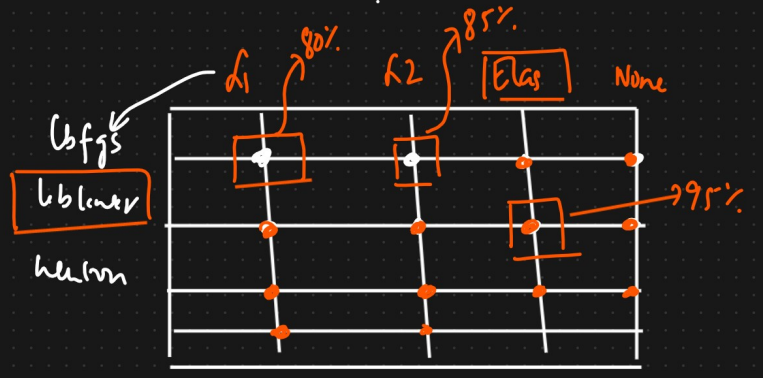
① GridSearchCV
② Randomized Search CV.

① GridSearchCV [GridSearch + Cross Validation]

penalty{'l1', 'l2', 'elasticnet', None}

24 Combinations

solver{'lbfgs', 'liblinear', 'newton-cg', 'newton-cholesky', 'sag', 'saga'}

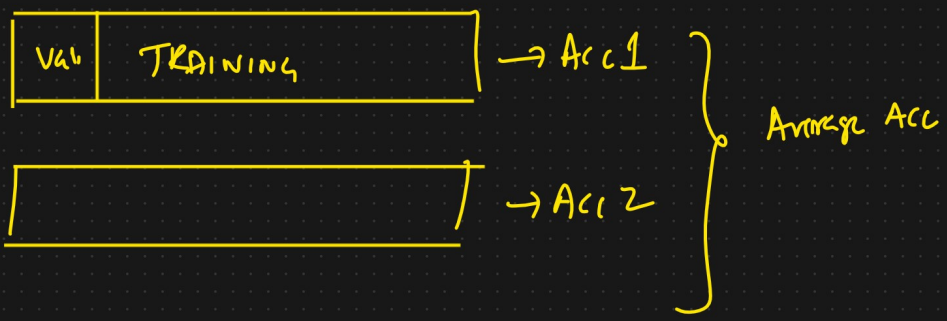


→ CV=5 CV=10

LogisticRegression(l1, solver)

↓

Cross validation [K fold CV]



Disadvantage

① Time Complexity increases with huge dataset for Training the Model

② RandomizedSearchCV

n_iter : 10	&	CV=5

10 different Combination + CV=5 => 50.

⇓

Select the best parameter

Advantage

① Time Complexity Decreases