Siddhardhan

Hyperparameter Tuning:

- GridSearchCV
- RandomizedSearchCV



Types of Parameters

Parameters

Model Parameters

These are the parameters of the model that can be determined by training with training data. These can be considered as internal Parameters.

- Weights
- **Bias**

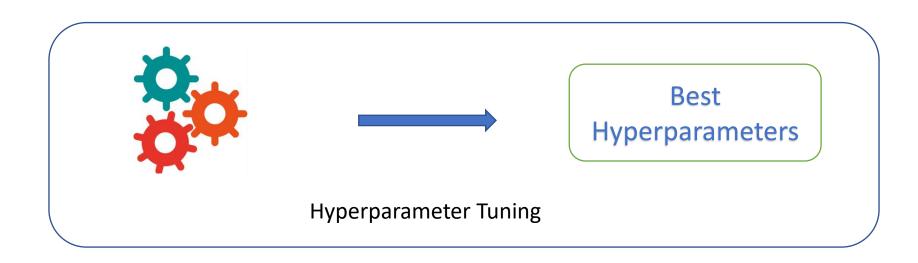
$$Y = w*X + b$$

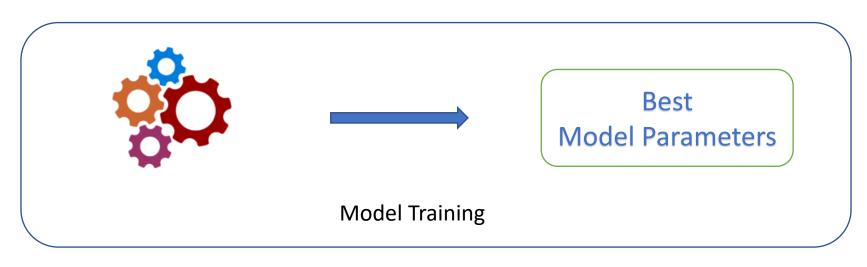
Hyperparameters

Hyperparameters are parameters whose values control the learning process. These are adjustable parameters used to obtain an optimal model. External Parameters.

- Learning rate
- > Number of Epochs
- n_estimators

Hyperparameter Tuning





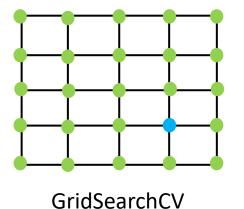
SIDDHARDHAN

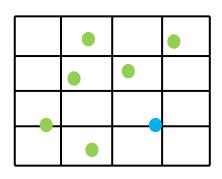
Hyperparameter Tuning

Hyperparameter Tuning refers to the process of choosing the optimum set of hyperparameters for a Machine Learning model. This process is also called **Hyperparameter Optimization**.



Hyperparameter Tuning Types:





RandomizedSeaechCV

Support Vector Classifier:

C: [1,5,10]

kernel: ('linear', 'poly', 'rbf', 'sigmoid')