Hyparameter Tuning

- * It is used to tune our Machine Learning Algorithm.
- # For example let's take our model as Linear Regression:

we call it by

Linear Regression ()

If we remove this brackets empty, Default parameters will be automatically initialized.

- -> parameters are fit_intercept, normalize, copy-x, positive etc.
 - * If parameters were not given the only combination of default parameters will be initialized.

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Grid search cv:
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In grid search or we will create a grid consisting multiple options for a parameter.

eg

Fit_intercept: True, False

1200 auc

copy - X : True, False

n-Jobs: 1,5,15,20,25

A PRIMITE 20 114

rank: 10,100,200

2 X 2 X 5 X 3

combinations

) we have 60 combinations.

etc...
(we can use as many
as params we want)

* Grid search or books at all those combinations and gives us best one out of All available combinations.

Randomized search CV:

- * It is also same as Graid search cv, but only checks prediffined number of combinations, out of all the available.
- * we can use the parameter n-iter to define it.
- my n-itex = 25, Then it's going to check with 25 Random combinations out of 120 and gives us best result.