OVER FITTING AND UNDERFITTING

OverFitting:

It Means that fitting the data more than necessary,Means when we fit more than necessary data in to the machine so in that suitation model rather than learning the task it remember the dataset and accuracy decreases.

It basically make our model more complex.

Or

When ur model tries to cover each and every point in your plane then we say such model as overfitt

UnderFitting:

It Means that Fiiting the data less than necessary,Means when we give less that for traning the model hence model cant learn the task hence accuracy of prediction decreases

That means model will not be able to predict the right values

Or

When ur model does not tries to cover each and every point in your plane then we say such model as underfiitt

BestFit

When our model is not overfiit or underfiitt hence the intermediate point is bestfit

BAIS AND VARIANCE

BAIS:

Baias basically show the error between observale and actua;l value

It Bsically tell as how better our model perform while training and testing

VARIANCE:

Whenevr we add a new data in our dataset a new non linear line will be added and hence the best fit line will be chnge again

High bais,low variance->underfit

Generlised model ->not underfit nor overfit

Low bais,high variance->overfitt