## Bias & Variance - Model Performance Tuning

Bias
Prejudice

Bias represents how much the model is rnclined to interpret the data in a certain way before seeing the data itself.

In simple terms, bias is the difference Letween the predicted and actual value (expected)

# A model with a higher bias would not match the data set closely.

# A low bias model will closely match the training data set

## Variance

-is the variability of predictions i.e., how spread out model predictions are

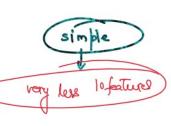
K-fold CV: K-fold cross validation

variance refers to changes in the model predictions when using different portions of the training data set.

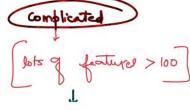
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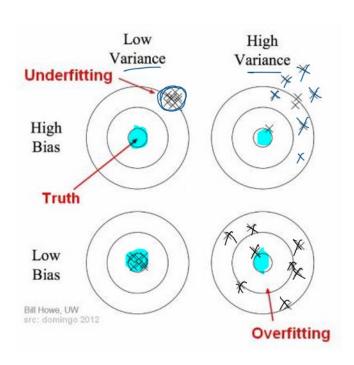
Nokia 1600

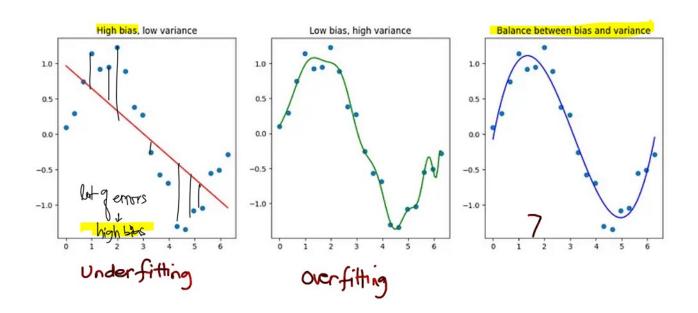




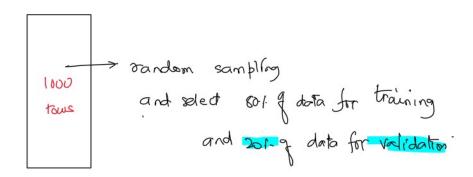








# K-fold cross validation
Approach #1



## Approach #2

K=5 fold cross-validation

