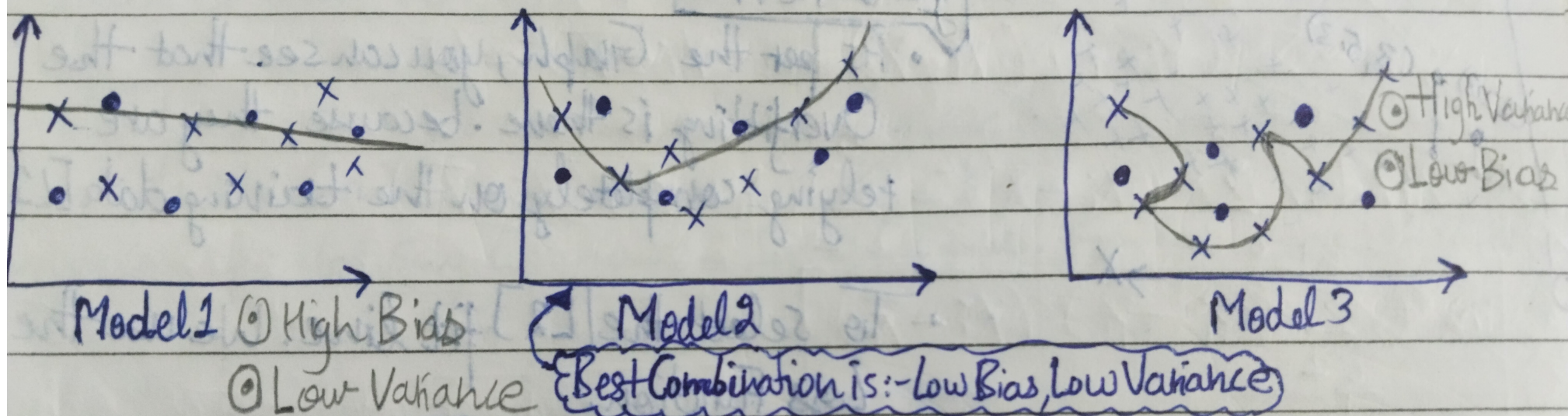


# Bias Variance Trade-Off

Bias means  $\rightarrow$  Learning data

Variance means  $\rightarrow$  Testing data..



Bias  $\Rightarrow$  In easy language, Bias is defined as the ability to analyse the patterns on  $X_{\text{test Data}}$  by learning from the Learning Data.

Variance  $\Rightarrow$  Variance is the difference between the Error performed on training data and error performed on testing data. if the difference is too high means High Variance and if less means Less Variance.