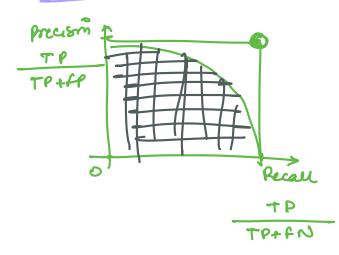


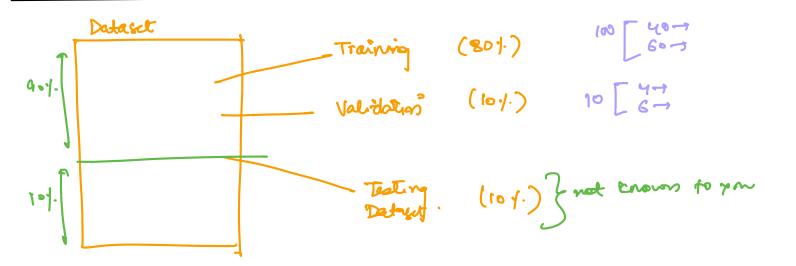
Accuracy =
$$TN + TP$$

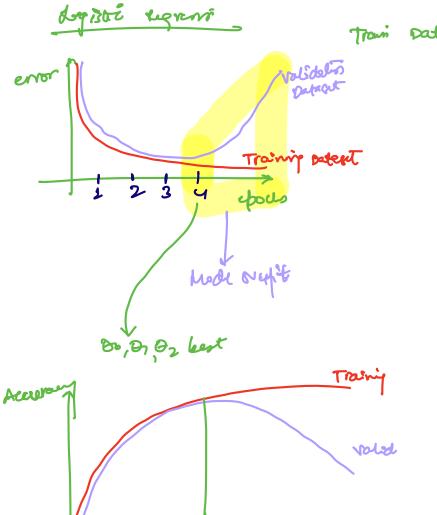
 $TN + TP + FN + FP$
Pricession = TP
 $TP + FP$ 2 out of all predicted + we, how
many were actually correct
Recall = TP
 $Ho + TP$
 $H - score = 2 \cdot Precision \cdot Ruall$
 $Preisin + Ruall$

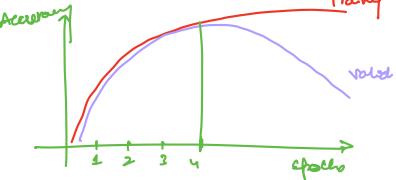


PR Curre









Traint Val k= 5, F	
$\begin{bmatrix} c_1 & P_0 \\ c_2 & T_{20} \\ P_{20} & P_{20} \\$	ND: C7 ND: C7 ND: C7 ND: C1

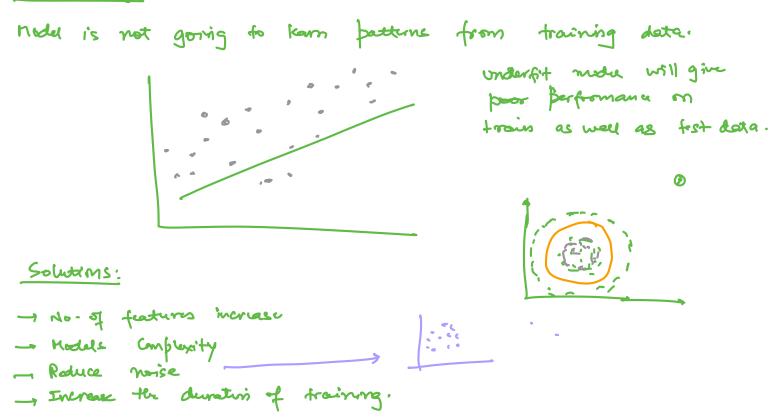
Overfitting:



Solution:

→ k fold cross validation? → Sufficient data → Branks → Ensembling technique. KNN 0 4 SVM 1 SVM 1 Log.R 1 DT 1

Under fitting:



BIAS AND VARIANCE:



Bias: wrong assumptions about data - like assuming data is linear in reality is follows a complexe fre. "It is the mability of the model bes of that there is diff in foredicted value & actual value. low Bias: lower assumptions make a model which closely wortches the training (Simple model) detects. high Bias: more assumptions nodel will not match training dataset closely. (Compley model) Yariance: I masure of spred in acte from its man position. to a subset which follows same distributions as > Sensitin your training dataser. low variance- model is very less sensitive to changes. High Variance. model is very sensitive to changes and it can result in significant charges if trained subcet. ma different operved wordels overfiting. Variance Bias Variance Tradeoff. Bias modele complexity