

A Model performance good on test data 1

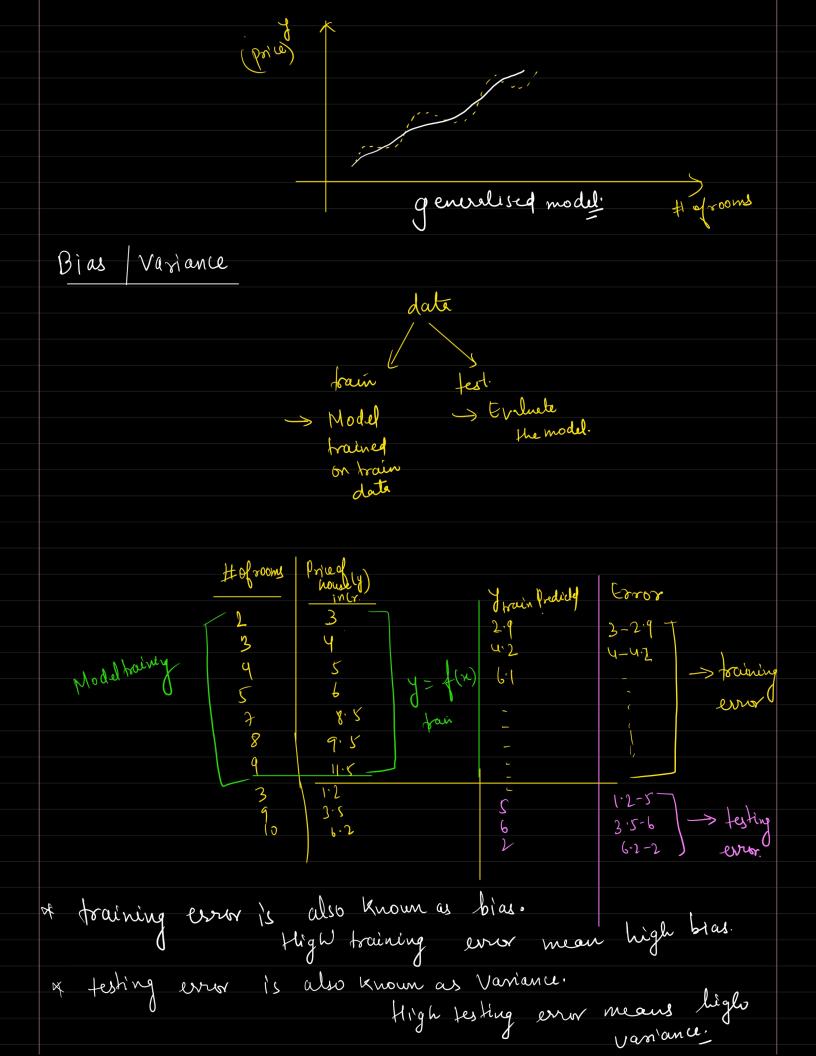
(Accuracy should be high) * Model Overfitting O Ajory Bij'ay train > Model is trained > Accuracy My (menanized) S concept S 10 Question test > Model is tested > Accuracy
[unseen date]

(65.1.) festing Board Fram -> Overfitting Questions are or Model berforms well on train deter but worst on test date: slightly Changed, * Model Underfilling train > Accuracy 1 > 50% b Underfitting

test > Accuracy 1 > 40% * Generalised model train -> Acuracy M 851.

test -> Acuracy M 841.

data -> Acuracy M 841. by in of point memonising all the y= f(x) No of Loom Overfitting (Underfirthing)



O verfotting toain -> Model is trained -> Acc M 951. Goverfitting.

test -> model is tested -> Acc il 60% > Low bias overfitting (Low bias High variance) Accuracy 1 Error V train -> Acc / > High training -> High bias test -> Acc / > High testing -> High variance. Underfi Hing Underfitting & High bias High Variance. Generalised Model town > Accuracy 1 | Low bias test -> Accuracy 1 | Low Variance Blas-Variance trade eff **Total Error** Underfilting lon pion -> Some more lowvariand training dp 0 → More feetwee → better feature Bias² Algori Hims > Don't learn In learn putt ong from noise - Vse Model complexity (flexibility) Some other Algos