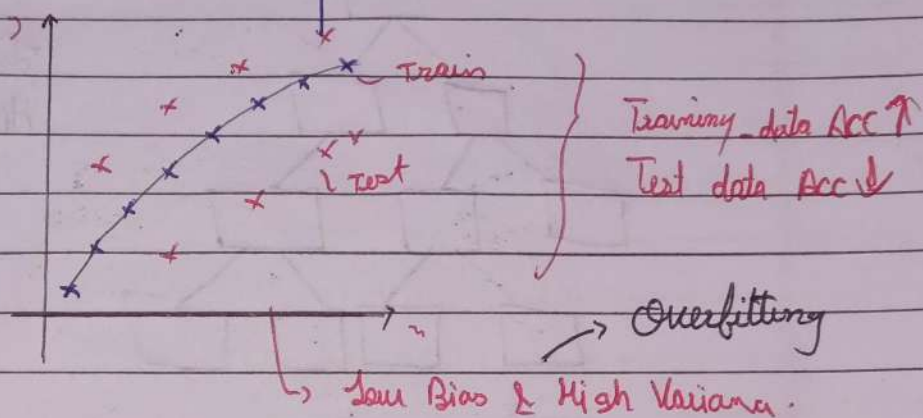
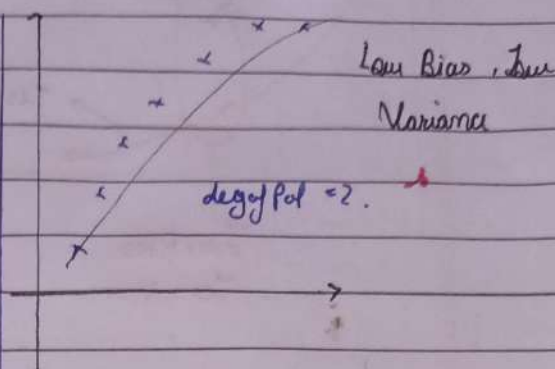
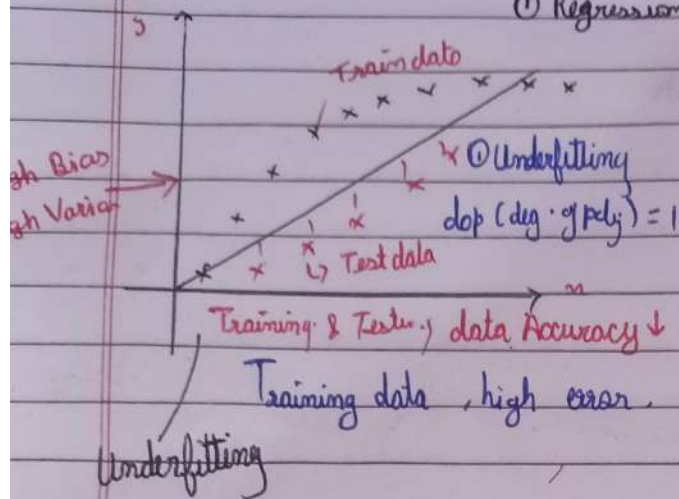


Pearson Correlation Coefficient

Date 26/08/2025
Page

Bias & Variance

① Regression



② Classification

Model 1

Train err - 1%

Test err - 20%

① Low Bias
② High Variance
Overfit

Model 2

Train err - 25%

Test err - 26%

① High Bias
② High Variance
~~Overfit~~

Model 3

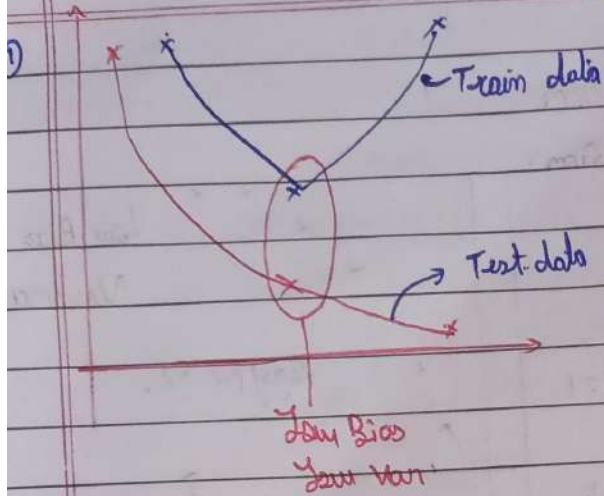
Train err - < 10%

Test err < 10%

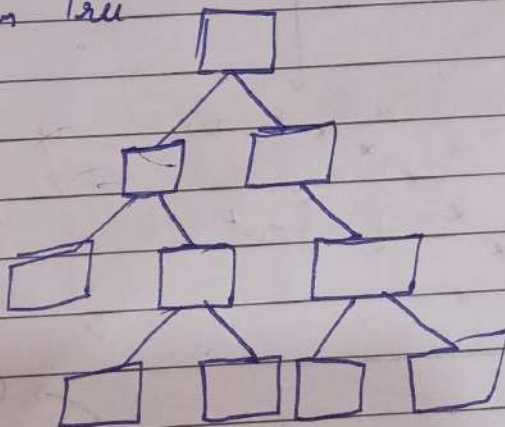
① Low Bias
② Low Var.

Note:

Bias \rightarrow Error of Training data
Variance \rightarrow Error of Testing data.



Decision Tree



Low Bias
High Variance

Random Forest

Low Bias
High Variance

Bootstrap aggregation

Low Bias
Low Variance

