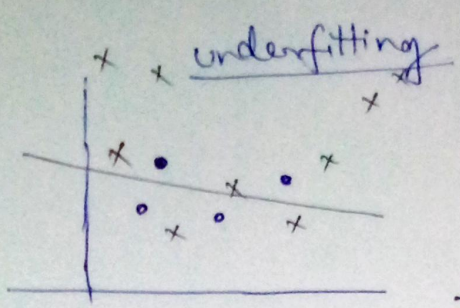
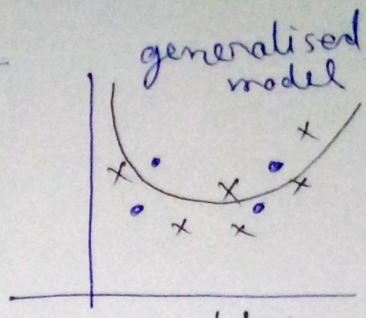
Date - 22 JAN 2025

BIAS VARIANCE TRADE-OFF



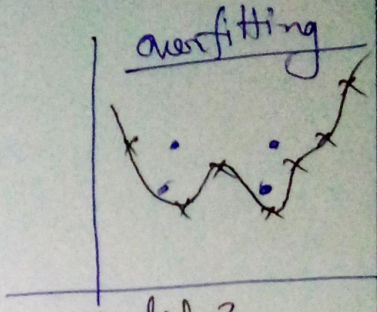
model-1

High bias
low variance
$(LV)_1$



model-2

Low Bias
Low variance
$(LV)_2$



model-3

x - training set
• Test set

low Bias
High variance

Bias - The inability of ml model to truely capture the relationship in training data

variance - defference of fits on different dataset

- Here $(LV)_1 > (LV)_2$
- for getting the generalised model we use methods like Regularization, Bagging, Boosting