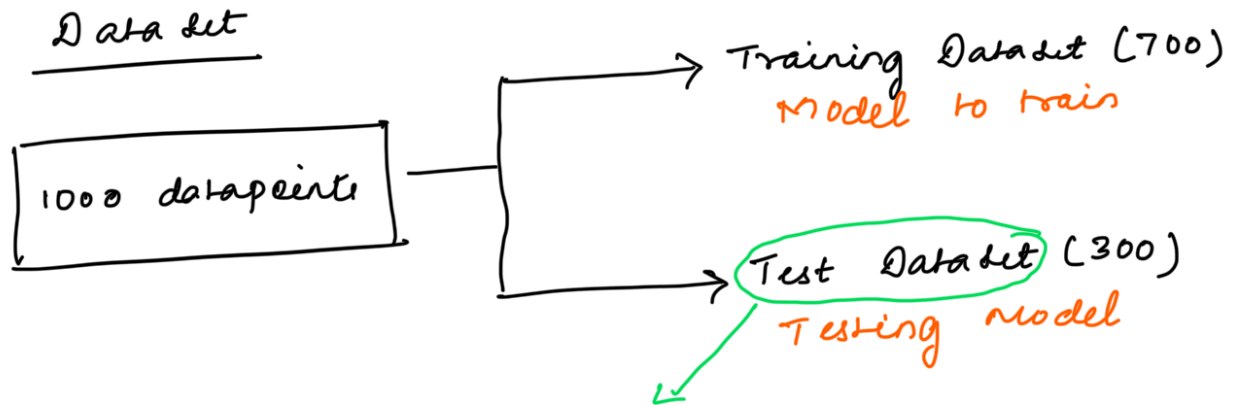
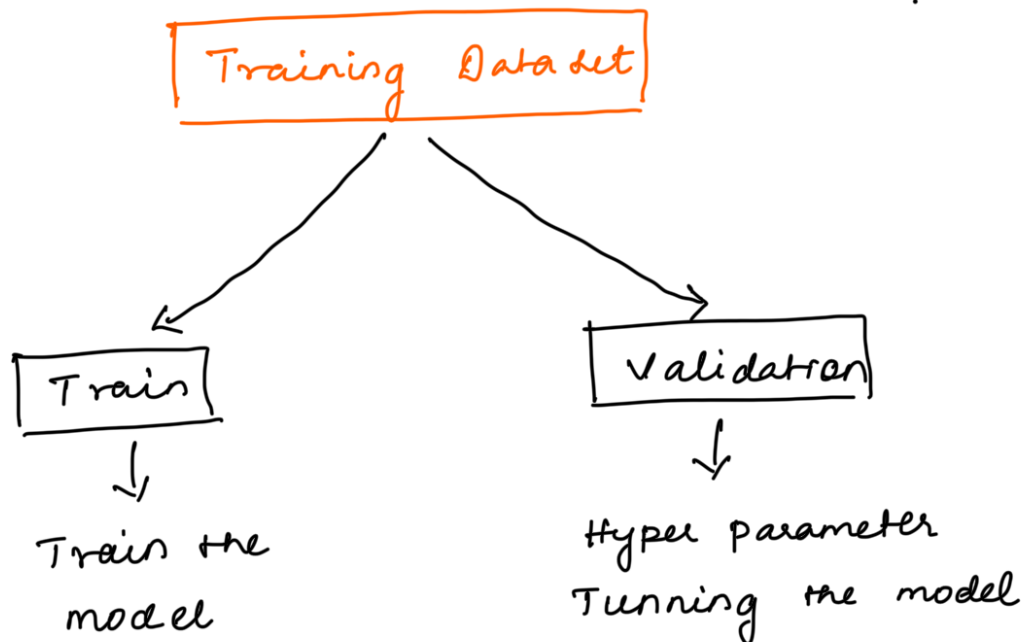


Overfitting And Underfitting (Bias and Variance)

- ① Training data set
- ② Test data set
- ③ Validation dataset



while training, my model does not know about test dataset.



TRAIN → Very good accuracy [low Bias]

TEST \rightarrow very good accuracy [low variance]



Generalized Model

There is a case,

TRAIN \rightarrow Very good accuracy (90%) [Low Bias]

TEST \rightarrow Bad accuracy (50%) [high variance]



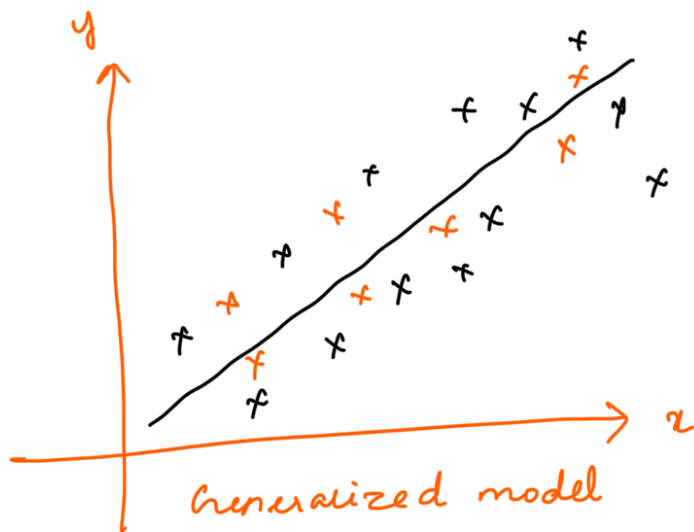
model is overfitting

TRAIN \rightarrow Model accuracy is low [High Bias]

TEST \rightarrow Model accuracy is low [High Variance]



model is underfitting



x — Test data
x — Train data



Low Bias

Low Variance

