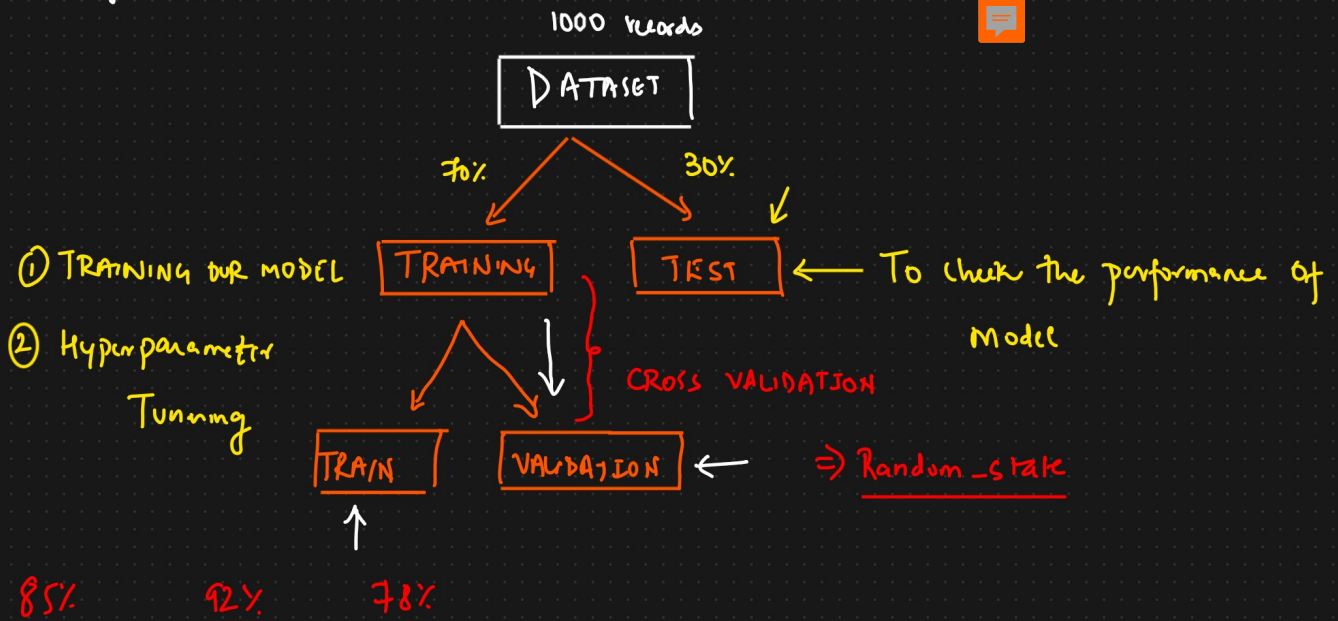
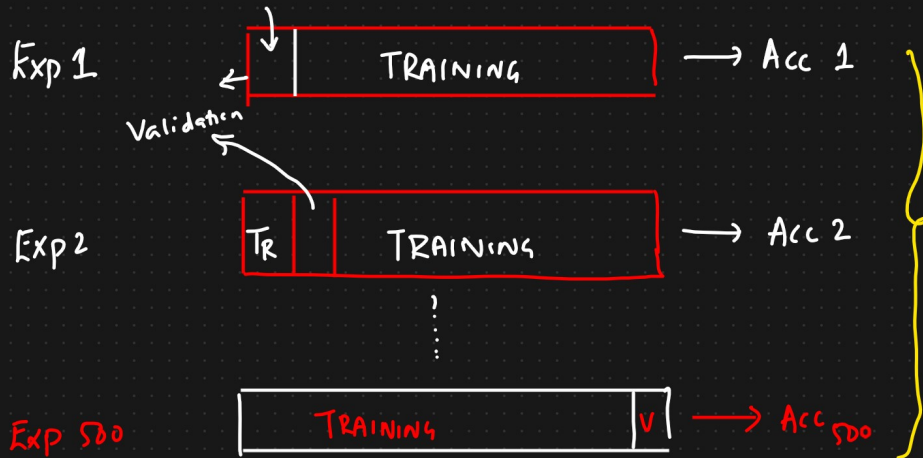


# Types of CROSS VALIDATION



- ① leave One Out CV (LOOCV)      ② leave p out CV
- $P=10 \quad P=20 \quad P=30$

**TRAINING** → 500 Records ↑↑ Complexity of Training Model



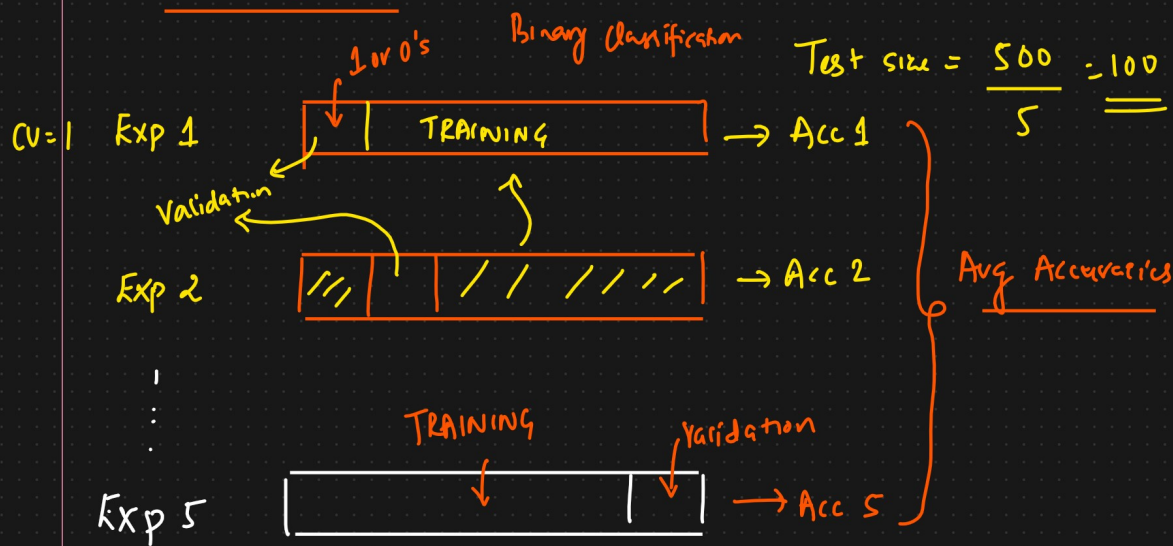
① Overfitting → TRAINING ↑↑ Acc → New Test Data → Acc ↓↓

Validation Acc ↓↓

### ③ K Fold CV

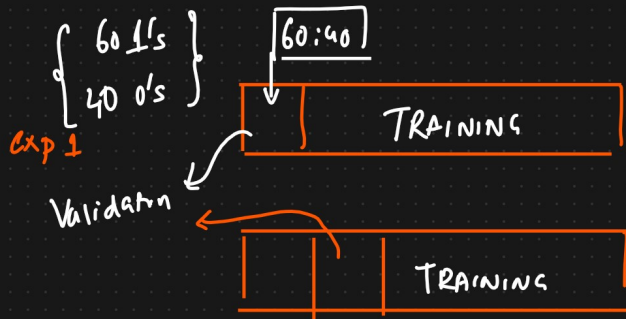
$K=5$

$n=500$



### ④ Stratified K Fold CV

$K=5$



Test size =  $\frac{500}{5} = 100$

↓

Validation Data

### ⑤ Time Series CV

Reviews

Product Sentiment Analysis

Time

JAN → DEC

DAY 1 DAY 2 DAY 3 DAY 4 | DAY N

TRAINING

Validation

Time Series Application