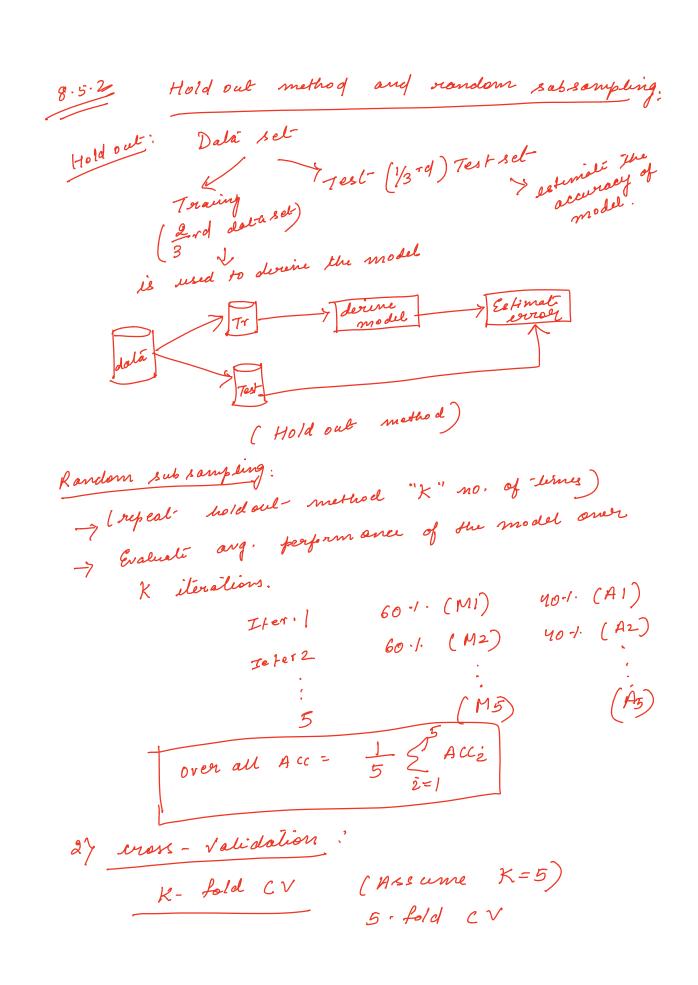
```
Model Evaluation measures
der 26 13 03/21
                  ( Section 8.5, Han Kamber, 3rd Edn)
         8:51 -> mélères for evaluating classifier performance
           8.5.2 - hold out method and random
                  Subsampling
          8.5.3 _ cross - Validation
          8.59 - bootstrap
 not. < 8.5.5 -> model soln. veing statistical lest
          8.5.6 > ROC curve
  8.5.1 -> (1) occuracy (recogn. rate)
           (2) sensitivity (rual!)
          (3) specificity
           (4) privsion
           (5) Fl- score
           (6) FB Score
   Positive tuples (main class of interest) G: by-comp-Yes
   Negaline tuples (not all toples) Eg: buy-comp-NO
1) Inne positive: (TP):
          P ML > P
2) True Negaline (TN):
                    N ML > N
```

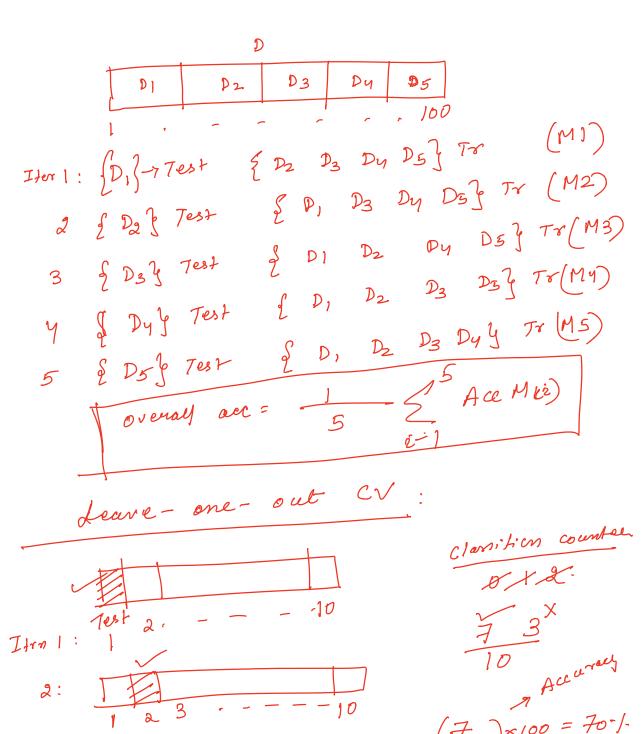
1. accuracy (rate) = 
$$\frac{TP + 7N}{P + N}$$

2. Error rate (misclassifica rate): 
$$\frac{FP + FN}{P + N} \begin{pmatrix} p^{er} \\ 1 - acc \begin{pmatrix} M \end{pmatrix} \end{pmatrix}$$

5. precision = 
$$\frac{TP}{TP + FP}$$

-> class imbalance problem:





2: 
$$\frac{10}{10}$$
  $\frac{3}{10}$   $\frac{3}{10}$   $\frac{3}{10}$   $\frac{7}{10}$   $\frac{7}{$