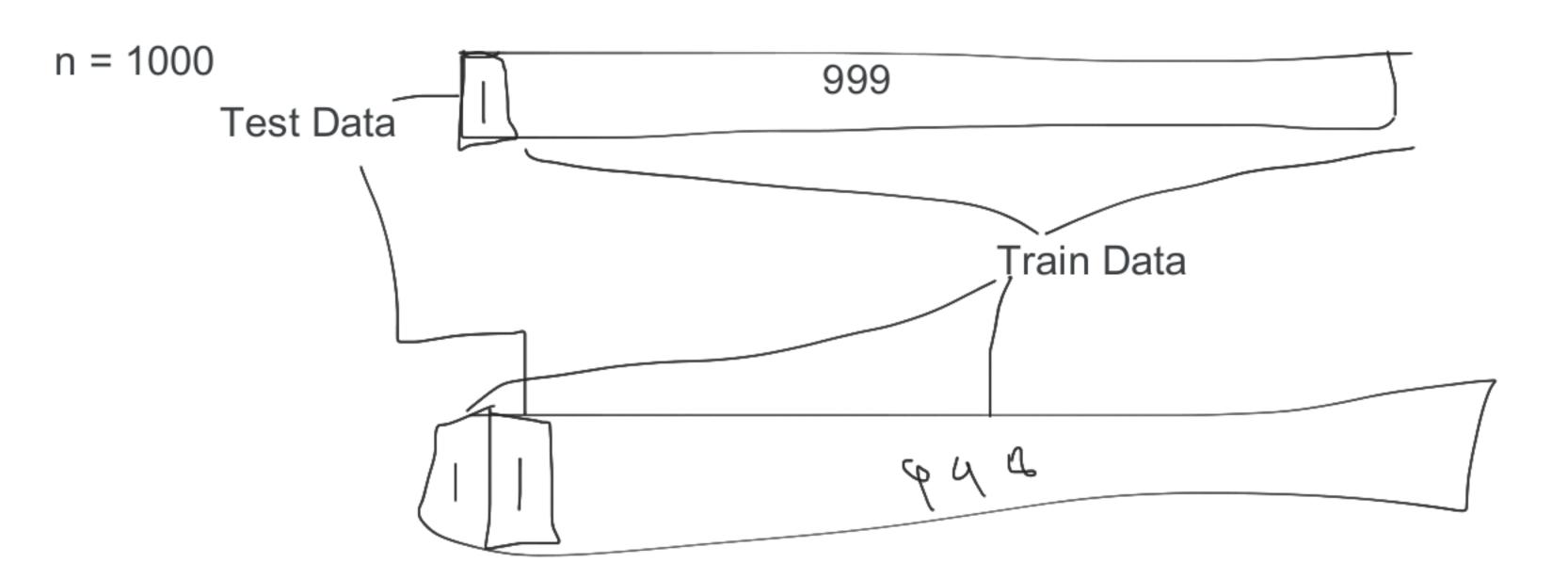
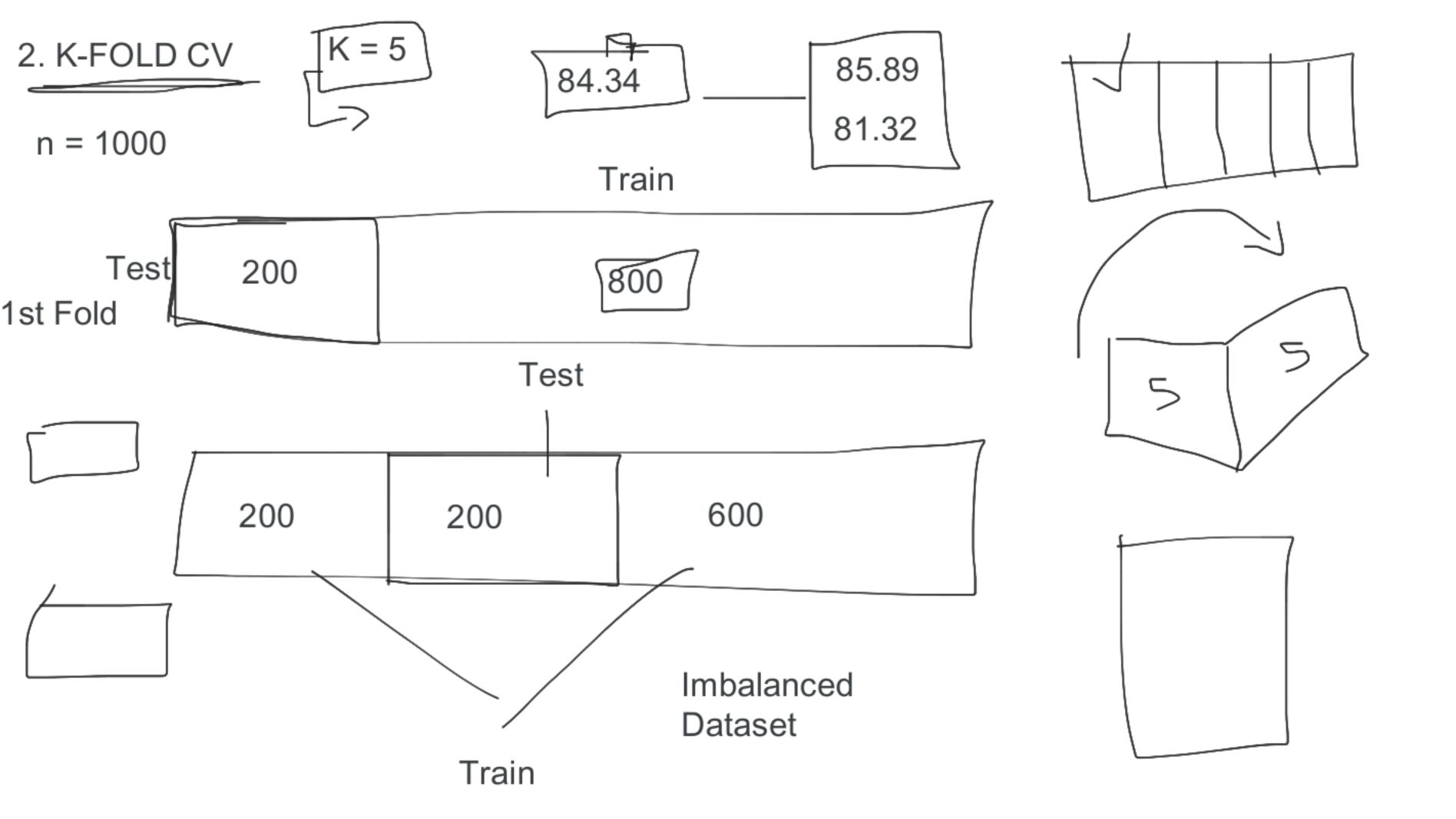


1. LOOCV (LEAVE ONE OUT CV)

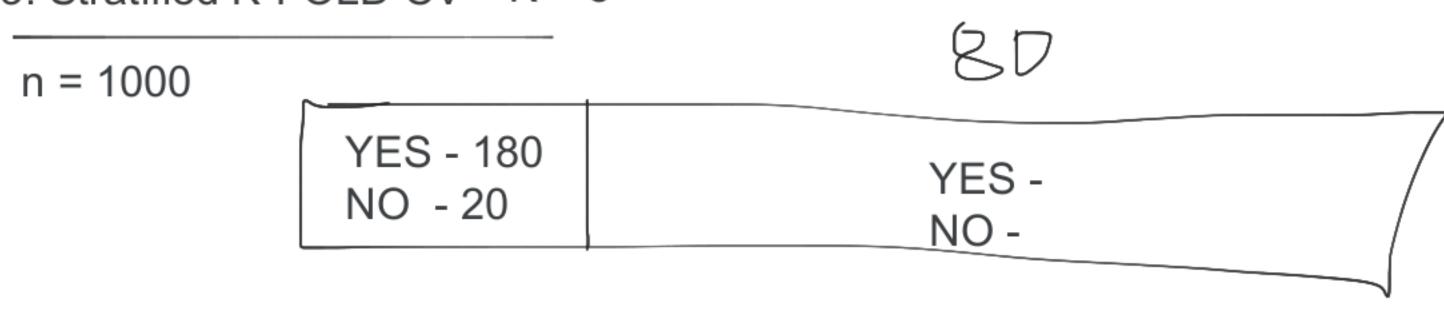
Nowadays, nobody use this type of CV



Many iteration is being used



3. Stratified K-FOLD CV K = 5



900 - YES 100 - NO

The main motive of the Stratified K-FOLD is to maintain the propotion of each classes in every training & testing dataset.

4. TIme Series CV

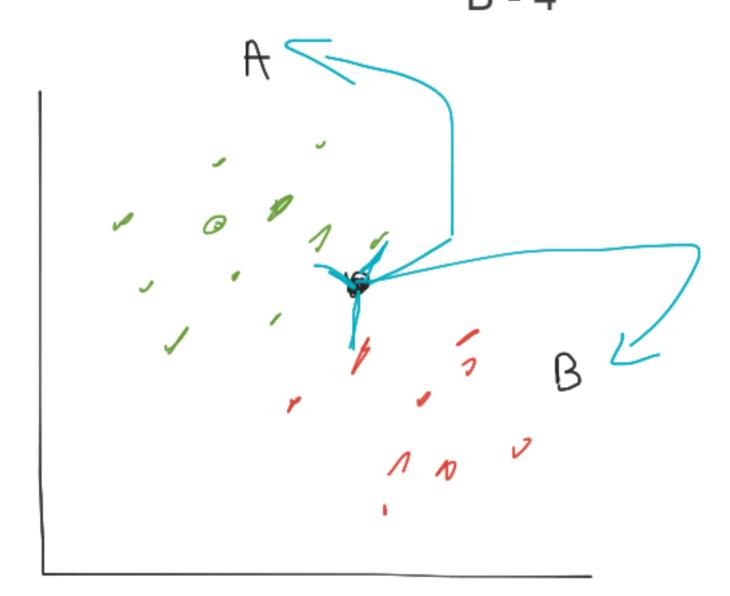
$$K = 3$$
 5 7

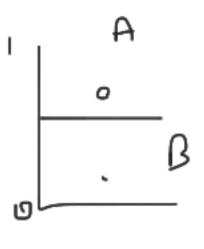
K-Nearest Neighbour

$$X -> (Math = 6, CS = 8) -> P$$

$$P - 3$$
 $F - 0$
 $6 - 4)^{3} + (8 - 3)^{3}$

Euclidean D. =
$$\sqrt{(x^2 - x^1) + (y^2 - y^1)}$$





How shall I choose the value of 'K' in KNN?

- 1. There is no methods or equations to find the value of 'K'. You have to use the hit & trail method to find out the value of 'K'.
- 2. You have to try to avoid choosing smaller values of 'K'
- 3. Always try to keep the values of 'K', as an odd number.

Pros:

- 1. Simple Algo
- 2. Gives better results
- 3. Multi classes cases

Cons:

- 1. You have to determine the value of K correctly
- 2. Storage will increase
- 3. High computation power is required
- 4. You should be aware about the distance finding algos

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