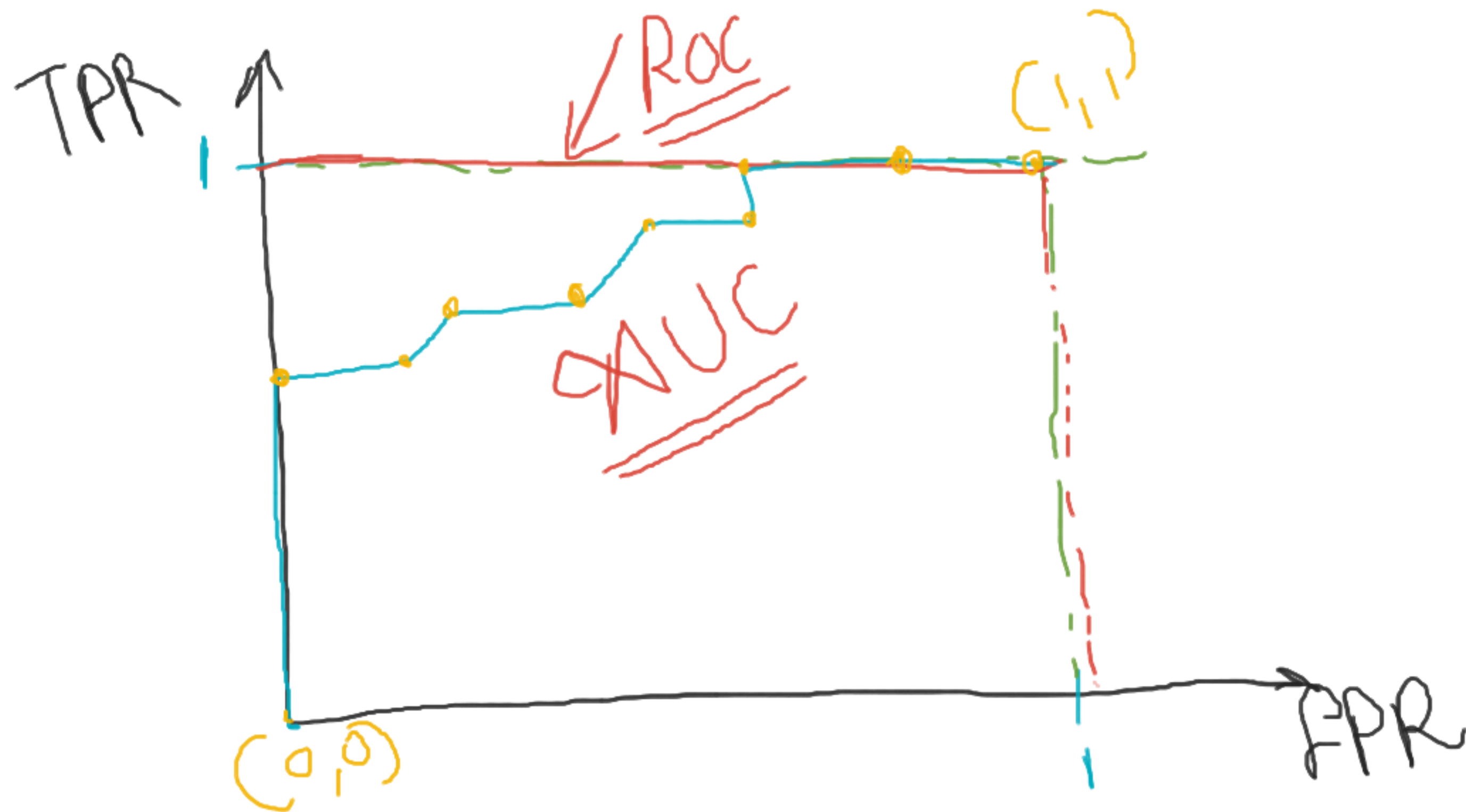
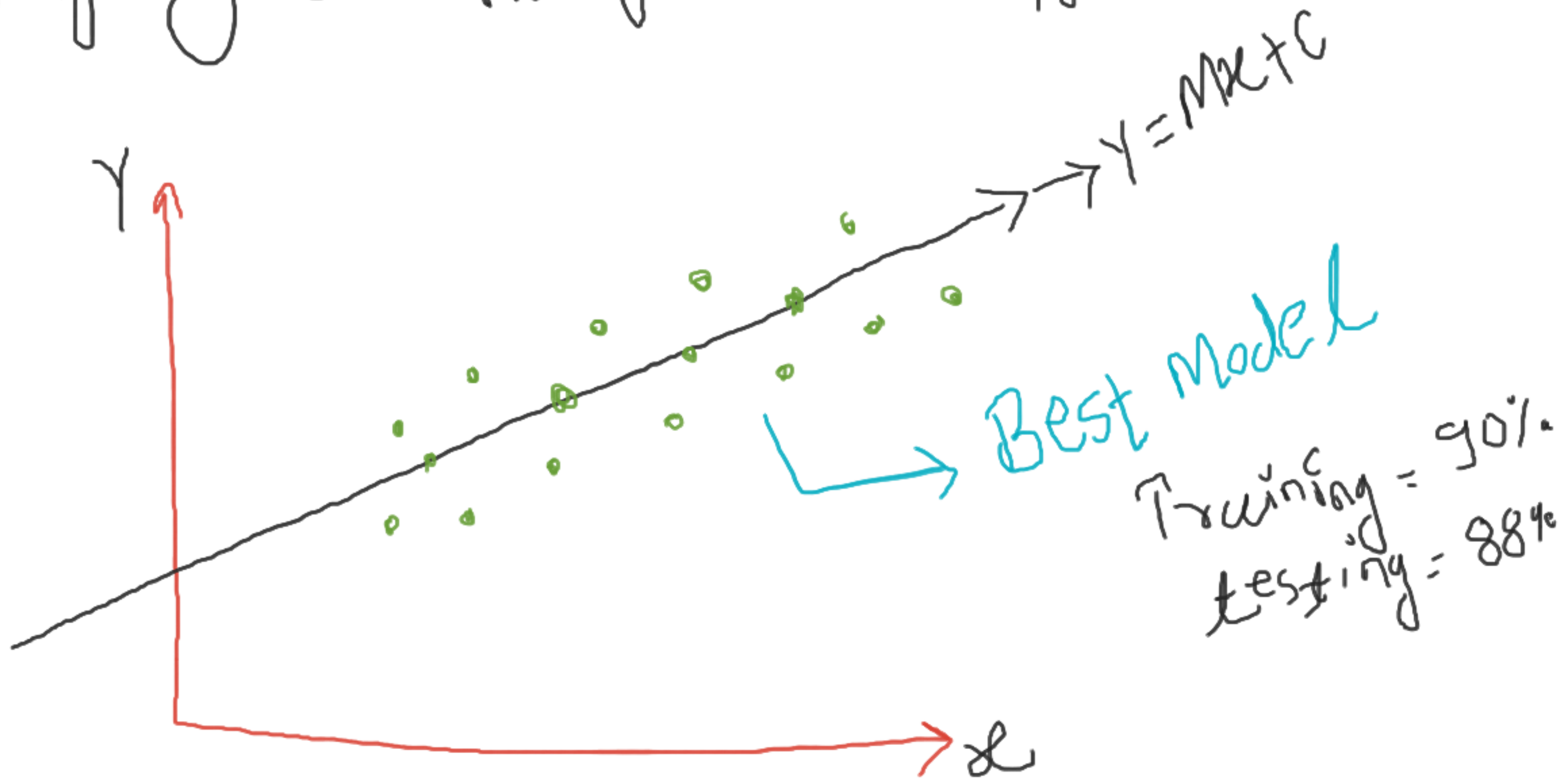


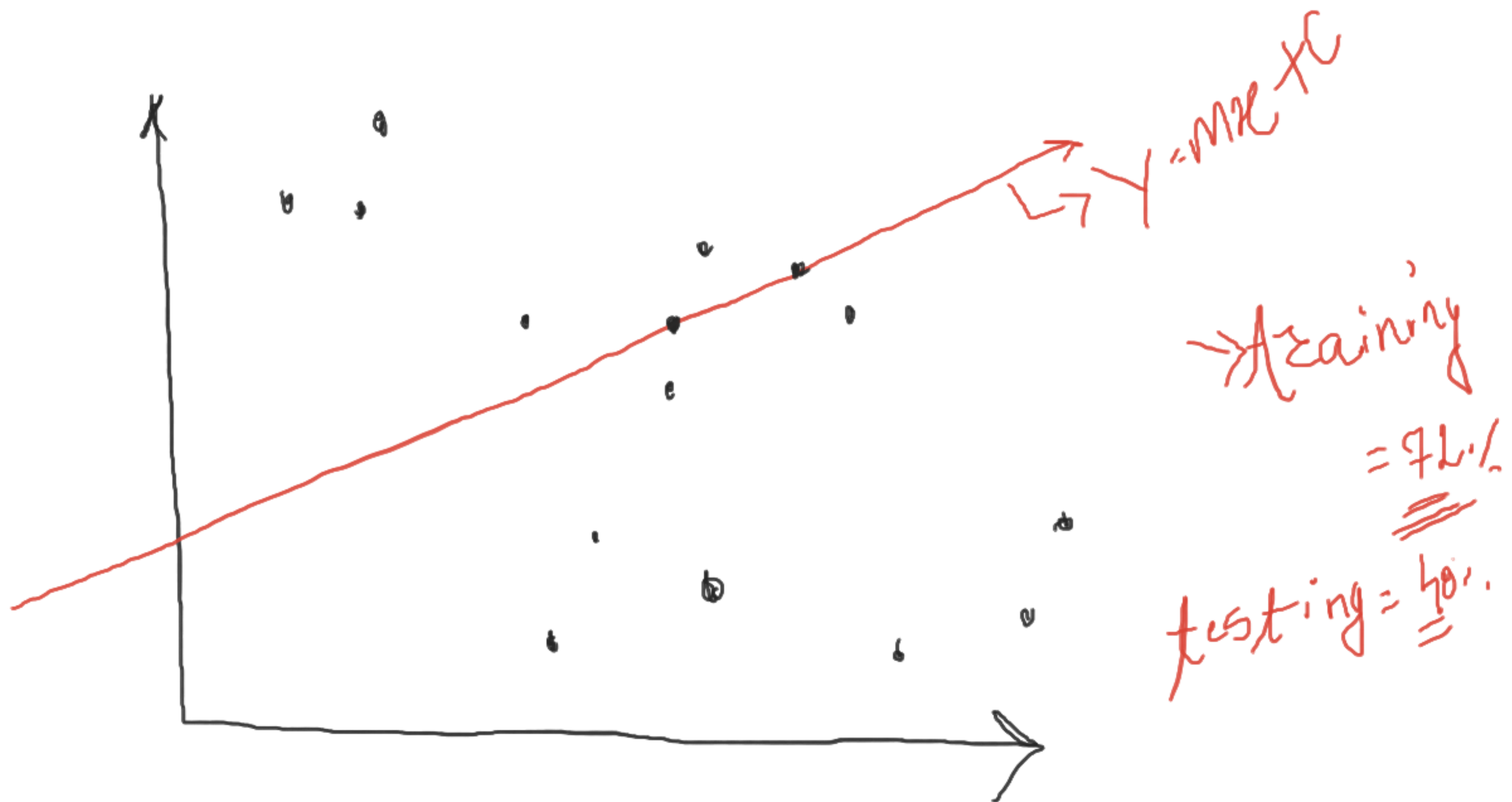
ROC = Receiver operating curve  
AUC = Area under the curve.



1 Overfitting & Underfitting :-

$T_x$





I] Underfitting :-

I] Training Acc = low

II] testing Acc = low

Underfitting concern/ model

I] training  
Accuracy = 75%

II] Testing Acc = 65%

I] TA = 68%  
II] Test A = 61%

Underfitting

ii] overfitting :-

i] Training Accuracy = High

ii] Testing Accuracy = Low

i] Training Acc = 85%

ii] Testing Acc = 75%  
71%  
70%

I] Bias & Variance :-

↳ Training Error.

I] High Training Accuracy = Low Bias

II] Low Training Accuracy = High Bias

- Training Acc :- 95%, Low Bias } Both Accuracy  
Training Acc :- 75% or 70%, High Bias }



i) Variance :-

i) Training Acc = High

ii) Testing Accuracy = High

= Low Variance

i) Training

Acc = 90%

Testing Acc  
= 86%

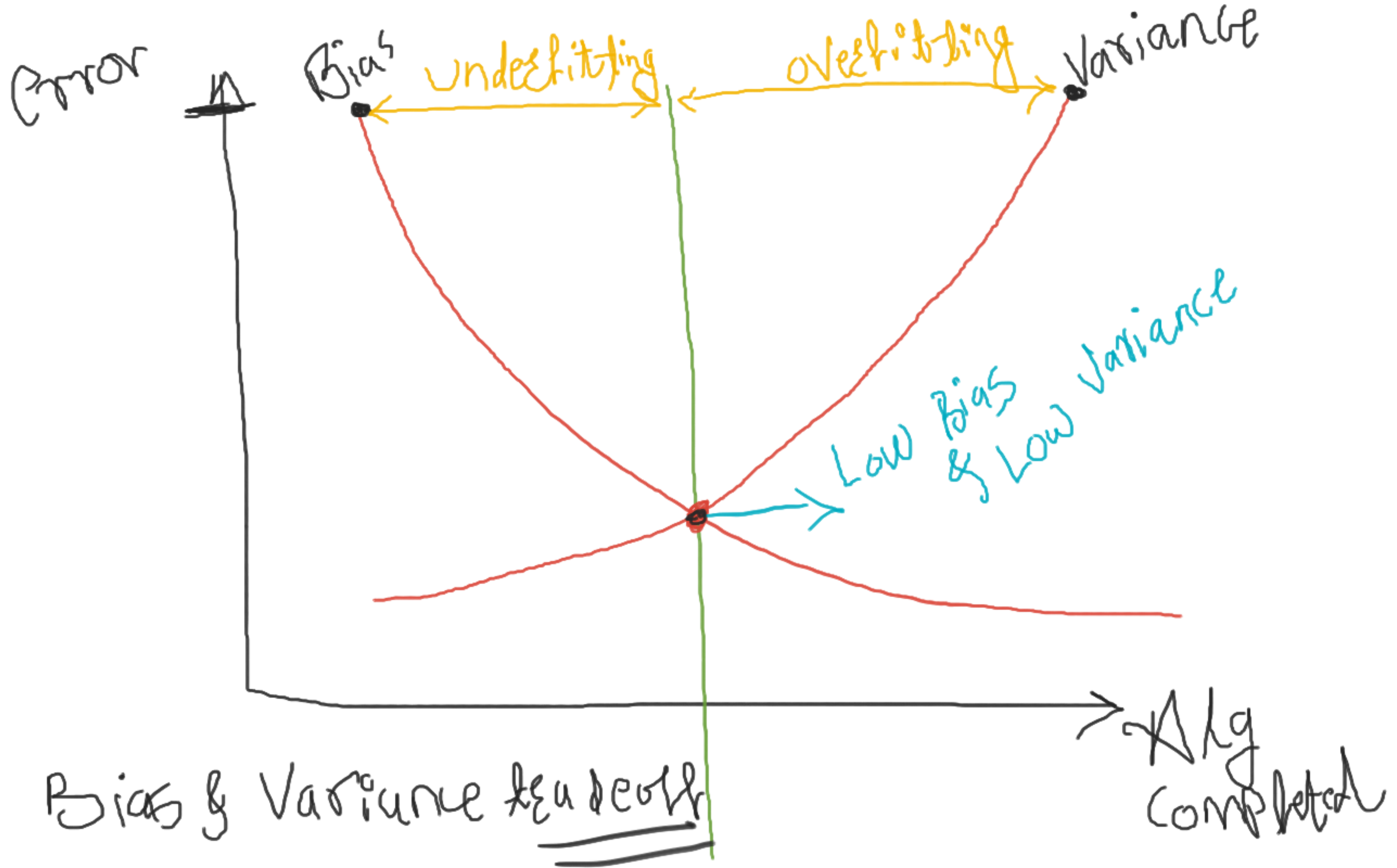
Training data Accuracy = high  $\gg 90\%$ .

Testing data Accuracy = low  $\gg 78\%$ .

= High Variance

Low Bias & low Variance = Best model/  
master model





1 CV :- Cross Validation

CV = 5, N = 10

= 1000

