

Python VII

* Summary:

→ Distributions

→ ROC

→ Binary vs Categorical 0-1 / 0-1-2-3...

→ More Layers, Opts, Activation Functions, etc

→ CV
GitHub

* Distributions:

Previously...

MNIST

[1] [2]
[3]

ANN

Classif

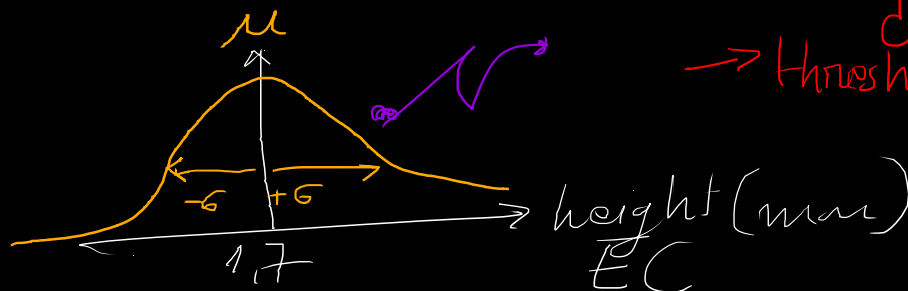
Binary

{ YES / NO

Probability

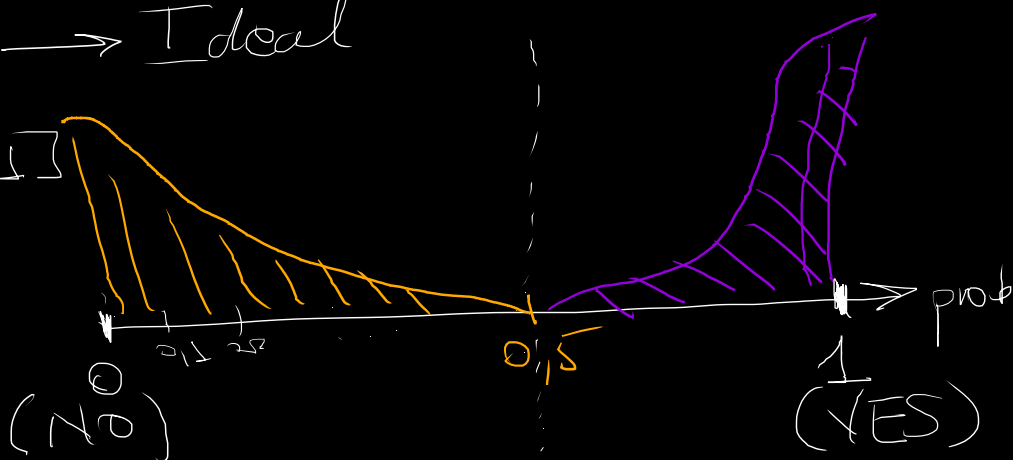
→ Threshold

Distribution:

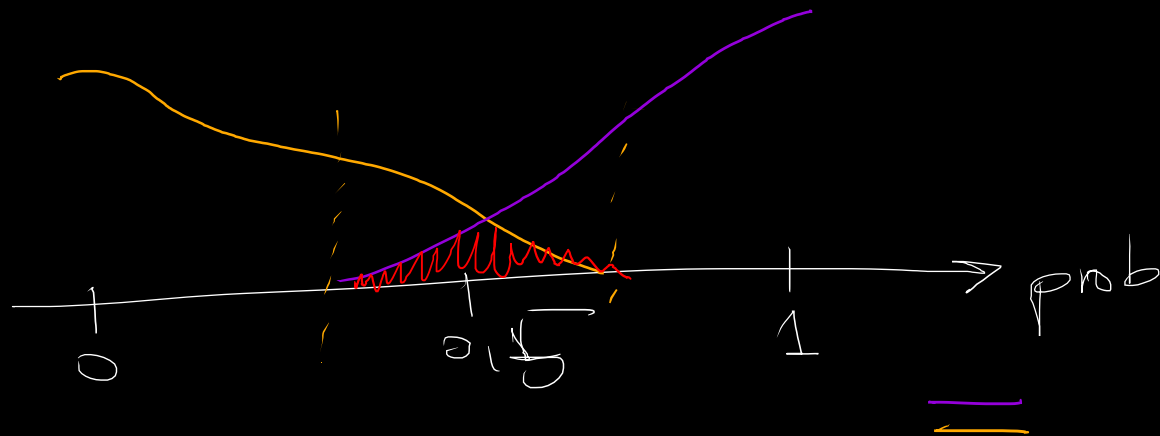


→ Ideal

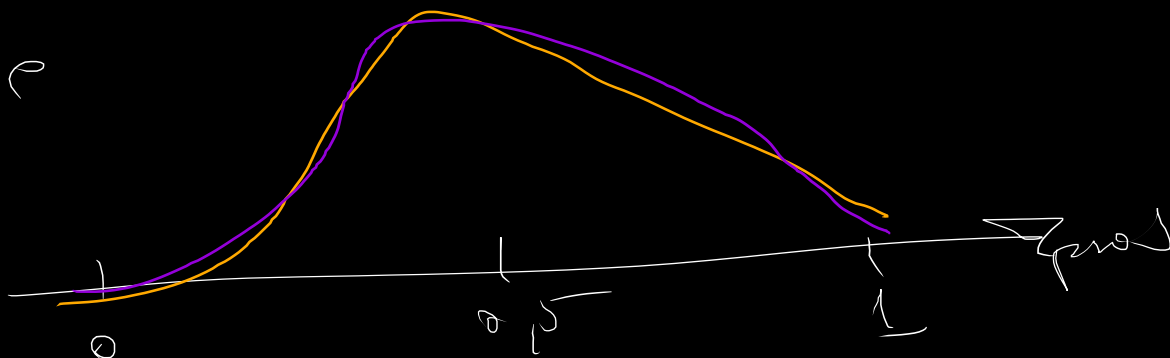
[Bin] → prob [0-1]



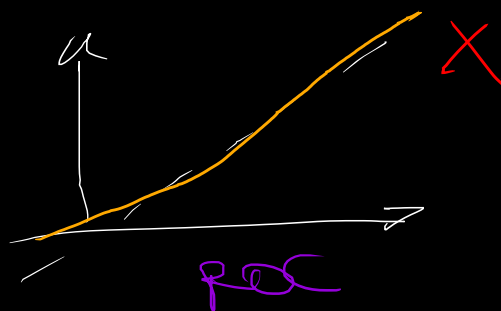
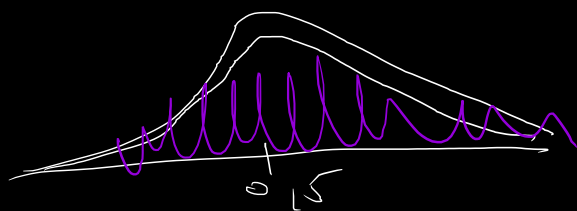
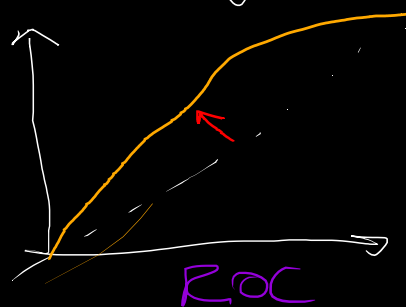
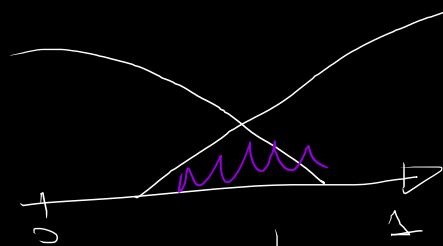
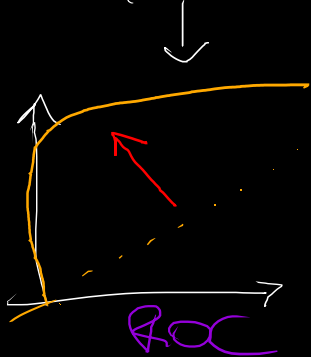
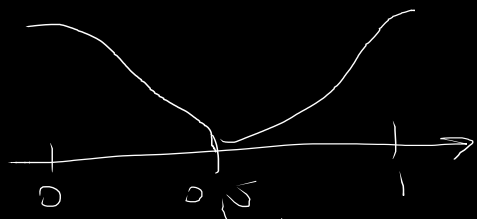
Real

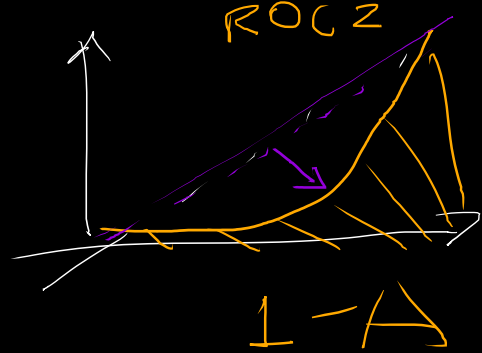
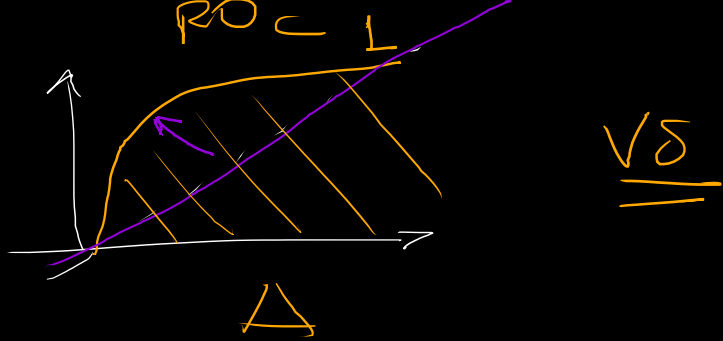


Worst Case

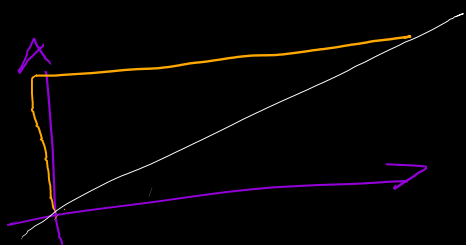
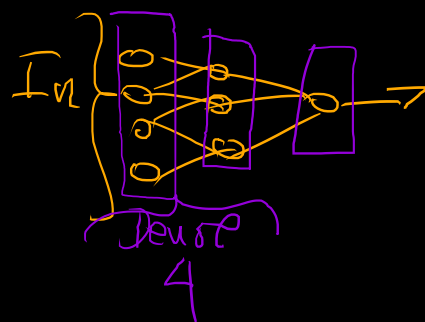
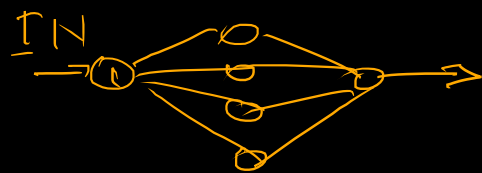
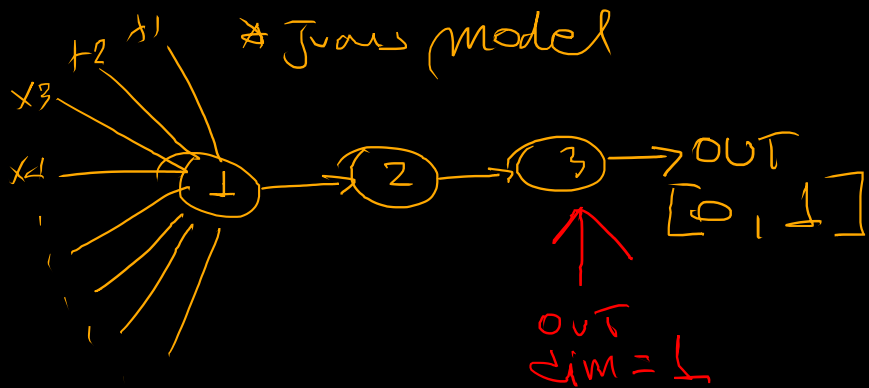


* ROC AUC



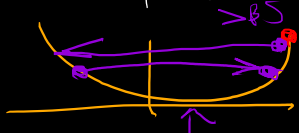
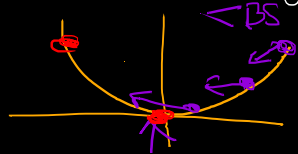


VS



* ANN Contest !! per

① Juan	- 3+3+2	Test AUC: 0,998154	0,997 0,997 0,5
② Diana	- 2	Test AUC: 0,9973	0,9979 0,997656
③ Jorge	- 4+4+2 # 3	Test AUC: 0,998209	0,99937 5 6 6 6
④ Sandro	- 5+5 - 2+2	Test AUC 0,9485	0,9983 0,9978
⑤ Rogito	- 6+3 4+3+1	Test AUC 0,9984	0,99906 0,996 0,998



Reproducible
init Random.

→ Seed !!