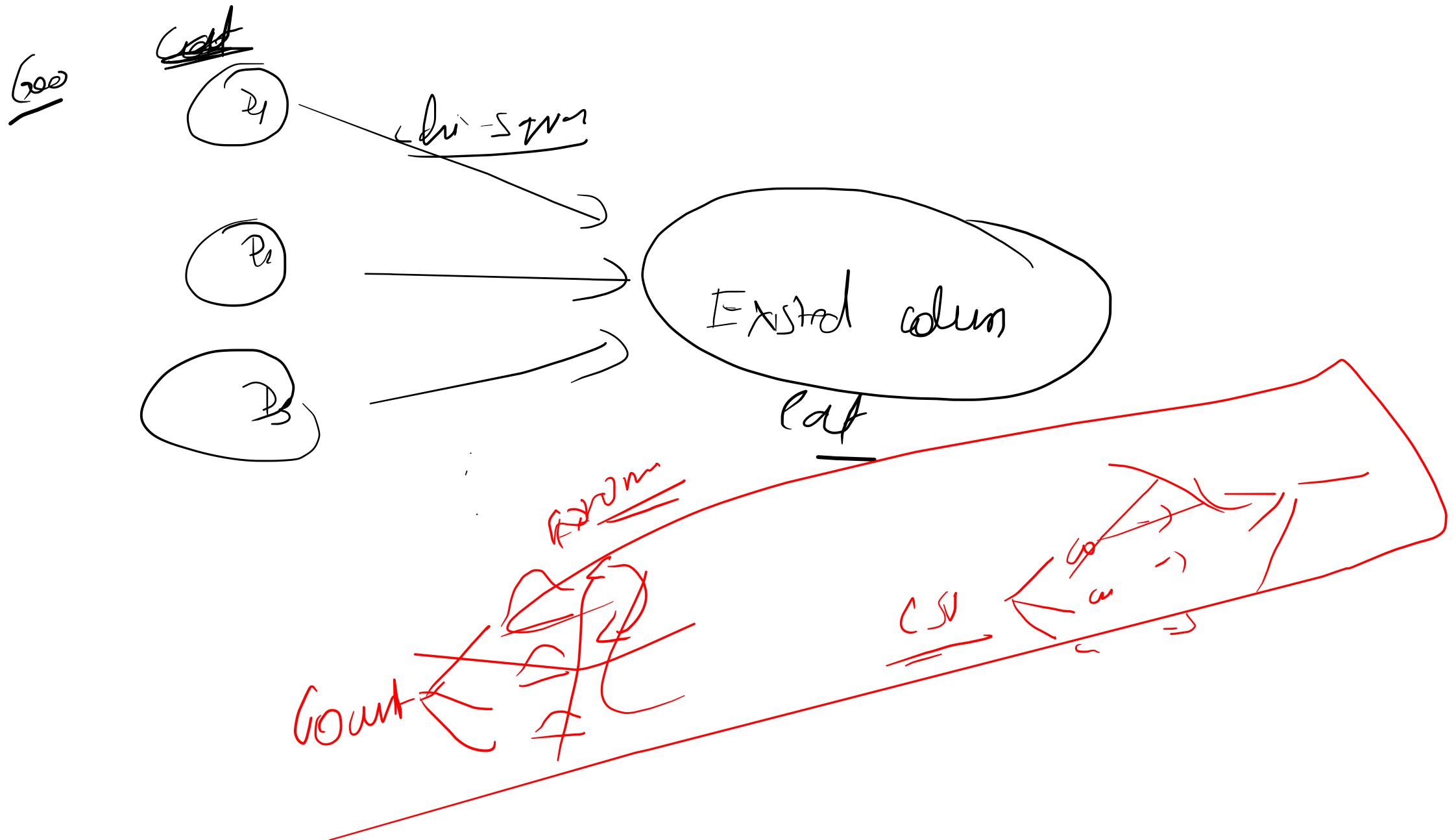


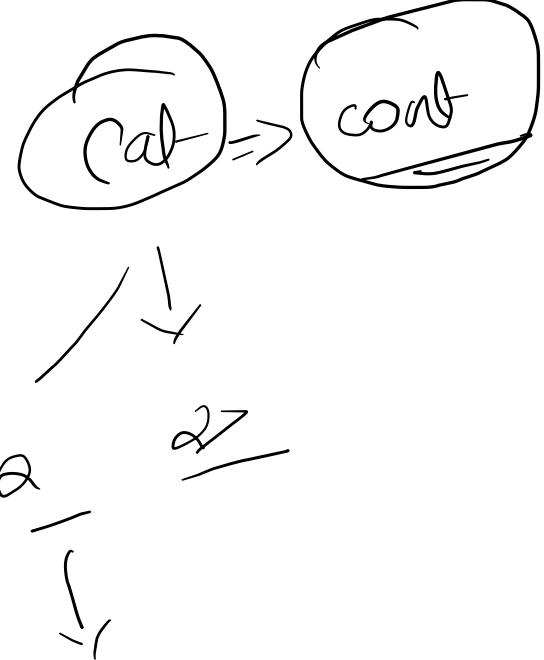
# chain modelling



## label encoding

M	1
M	0
F	1
M	0
F	0
M	1
F	0

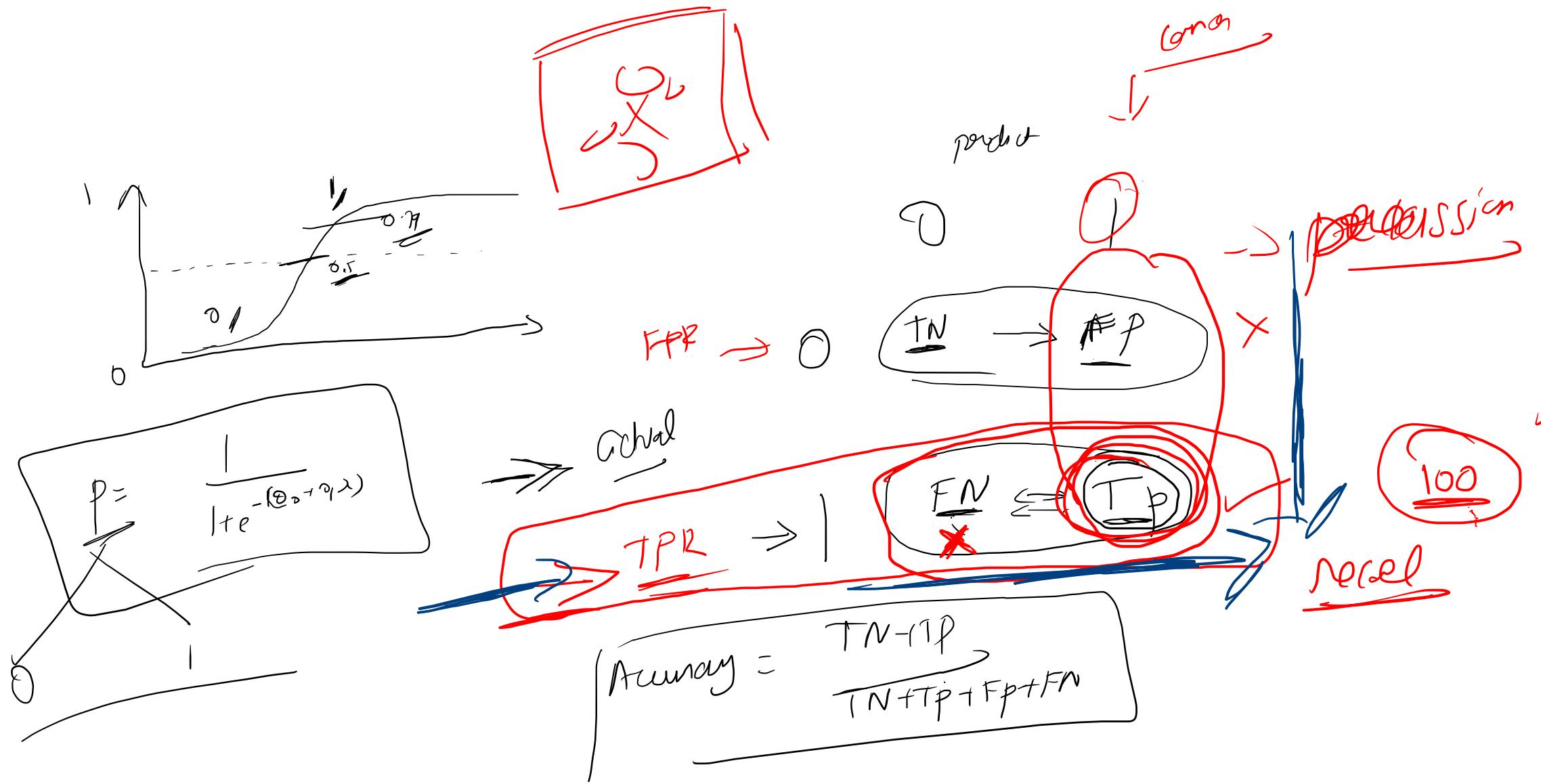
label  
encoding



	Suv	Luv	Muv
SUV	1	0	0
CUV	0	1	0
MUV	0	0	1
SUV	1	0	0
CUV	0	1	0
MUV	0	0	1

↓  
One hot encoding

(o.v.s)  
Label binarizer  
dummy variable



$$TPR = \frac{TP}{TP + FN}$$

$$FPR = \frac{FP}{FP + TN}$$

threshold  $\rightarrow$  y-pred  $\rightarrow$  confusion  $\rightarrow$  Accuracy

0.1

0.2

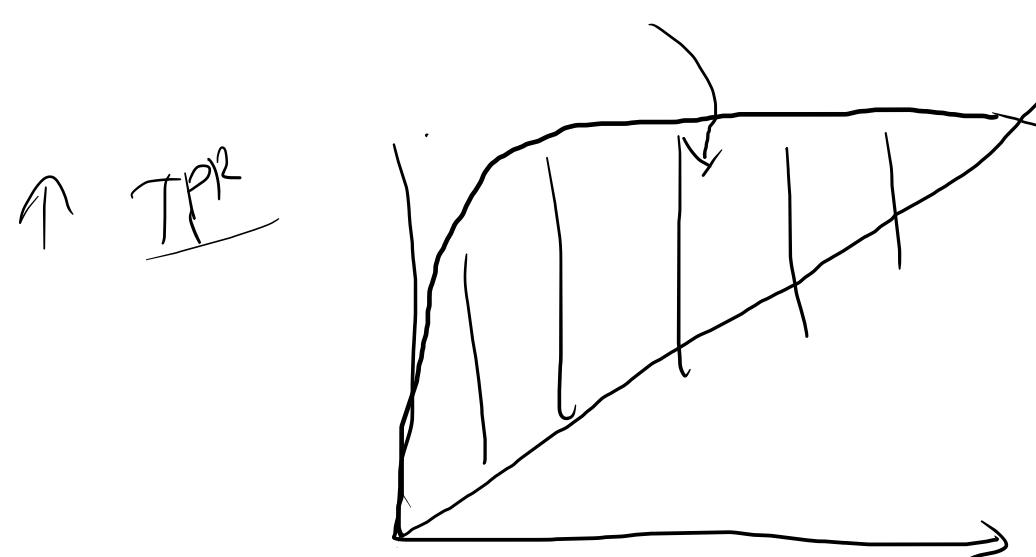
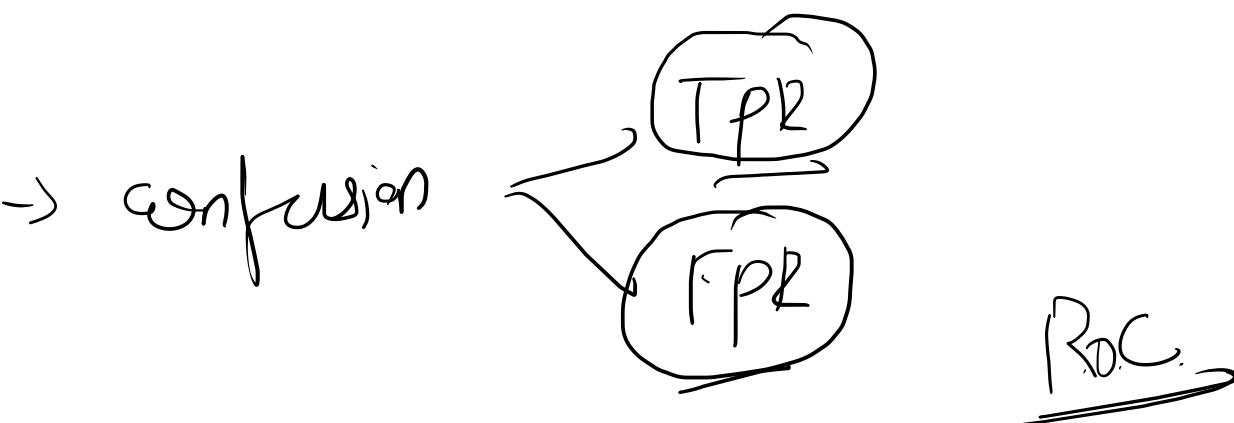
0.3

0.4

:

1

Model  $\rightarrow$  ~~0.1~~



AUC  $\uparrow$

$\hookrightarrow$  0.5

$\downarrow$

Model

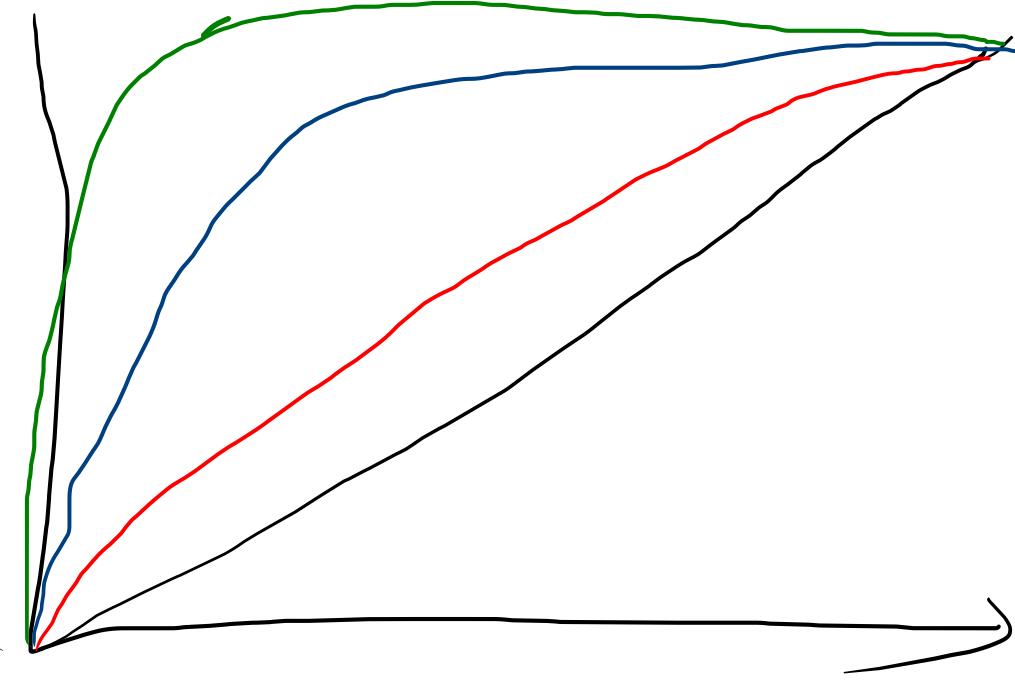
AUC  $\underline{0.5}$

$\mathfrak{g} \rightarrow \underline{0.60}$

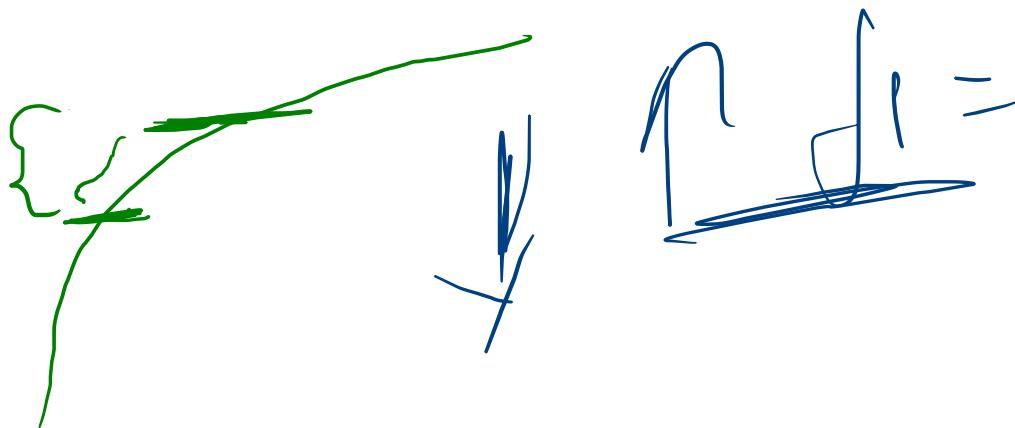
$\mathfrak{Vg} \rightarrow \underline{0.70}$

$\mathfrak{Wg} \rightarrow \underline{0.80}$

$\mathfrak{hex} \rightarrow \boxed{\underline{0.9-1}}$



green =  $\text{AUC}^{\text{max}}$



$\text{AUC} = \text{precision} \times \text{recall}$

precision + recall