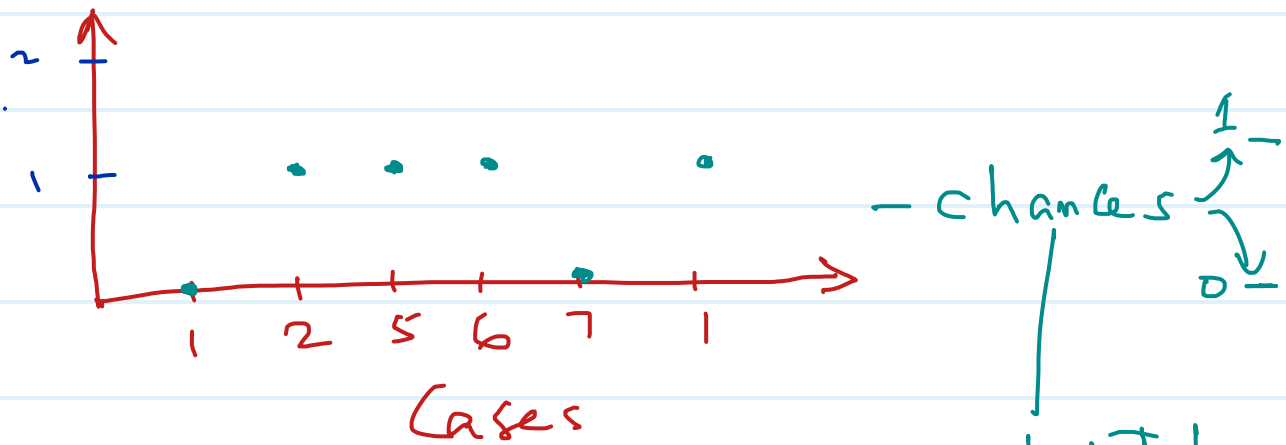


classifying $\begin{cases} \text{spam / fraud} \rightarrow 0 \\ \text{not spam / not fraud} \end{cases}$

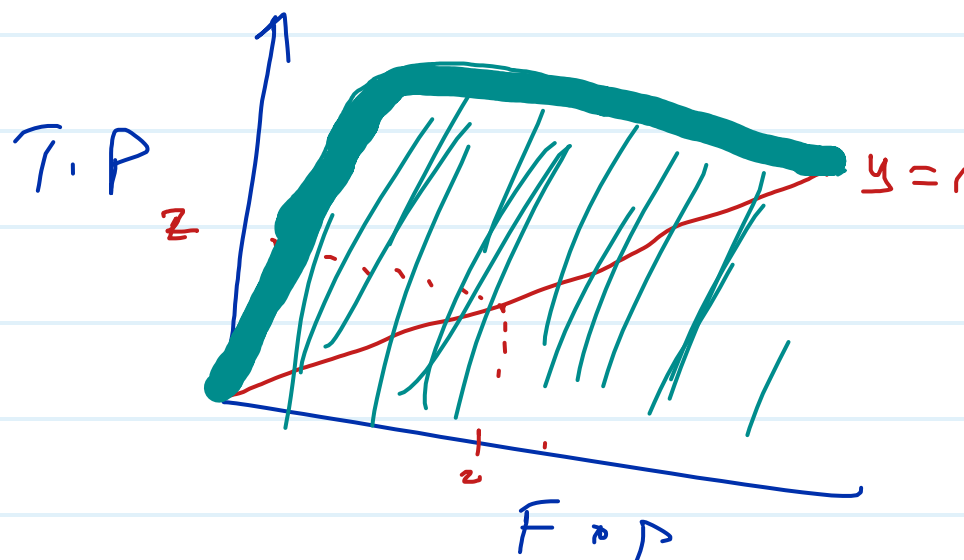
1



$$pdf = \int_{-\infty}^{\infty} f(x) dx$$



$$g(x) = \frac{1}{1 + e^{-x}}$$



Thus in binary classification, the count of true negatives is

$C_{0,0}$, false negatives is $C_{1,0}$, true positives is

$C_{1,1}$ and false positives is $C_{0,1}$

Python
version

		Actual positive
	$C_{0,0}$	$C_{0,1}$
	$C_{1,0}$	$C_{1,1}$

	TN	FP
	FN	TP

Actual
positive

Negative
pred

positive
prediction

TP	FP
FN	TN

Notes