

Confusion Matrix Notations:

- $TN \rightarrow$ True Negative.
- $FN \rightarrow$ False Negative.
- $FP \rightarrow$ False Positive.
- $TP \rightarrow$ True Positive.
- $TNR = \frac{TN}{TN+FP} \rightarrow$ True Negative Rate.
- $TPR = \frac{TP}{TP+FN} \rightarrow$ True Positive Rate (**sensitivity**).
- $FPR = 1 - TNR \rightarrow$ False Positive Rate.
- $FNR = 1 - TPR \rightarrow$ False Negative Rate.
- $NPV = \frac{TN}{TN+FN} \rightarrow$ Negative Predictive Value.
- $FOR = 1 - NPV \rightarrow$ False Omission Rate.
- $PPV = \frac{TP}{TP+FP} \rightarrow$ Positive Predictive Value (**precision**).
- $FDR = 1 - PPV \rightarrow$ False Discovery Rate.

(a)

True Class	0	TN	FP	TNR	FPR
		FN	TP	TPR	FNR
	1	NPV	PPV		
		FOR	FDR		
		0	1	Predicted Class	

(b)