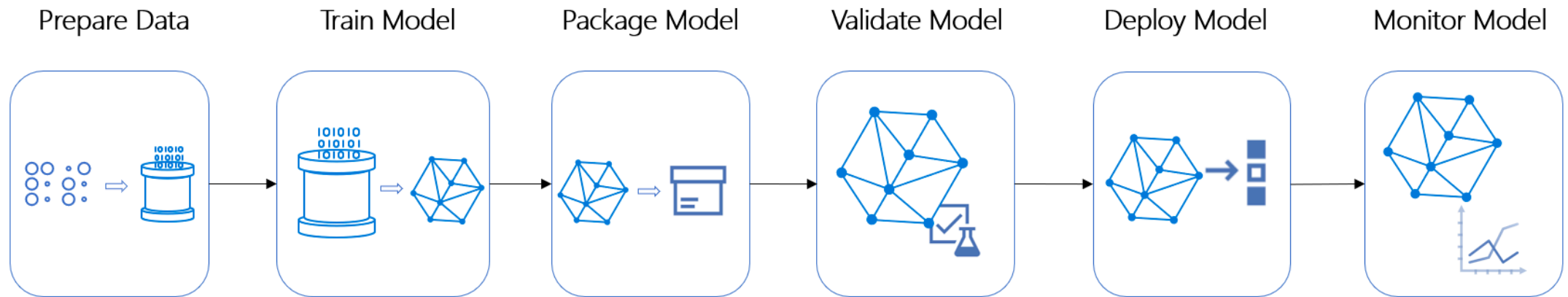


# ML Pipeline

# What's Pipeline?



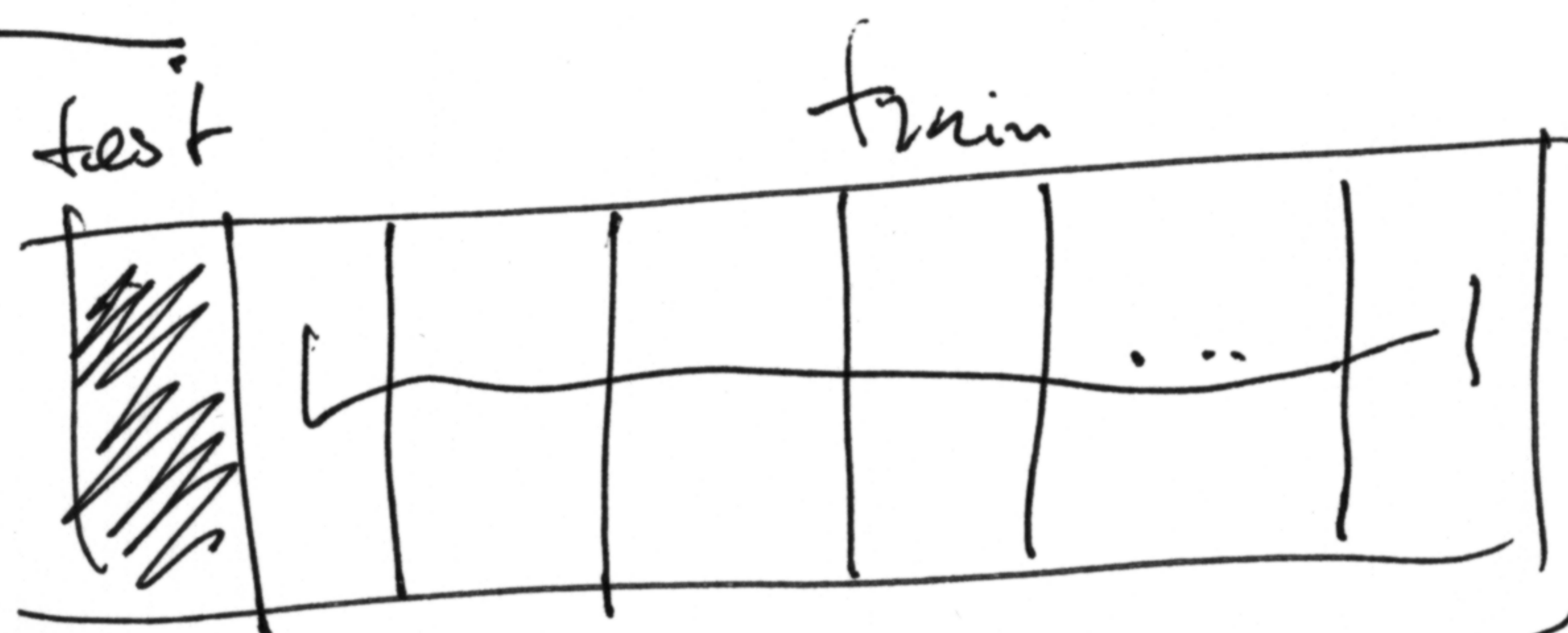
# Evaluation

		Actual Value	
		Positive	Negative
		Positive	Negative
Predicted Value	Positive	True Positive	False Positive
	Negative	False Negative	True Negative

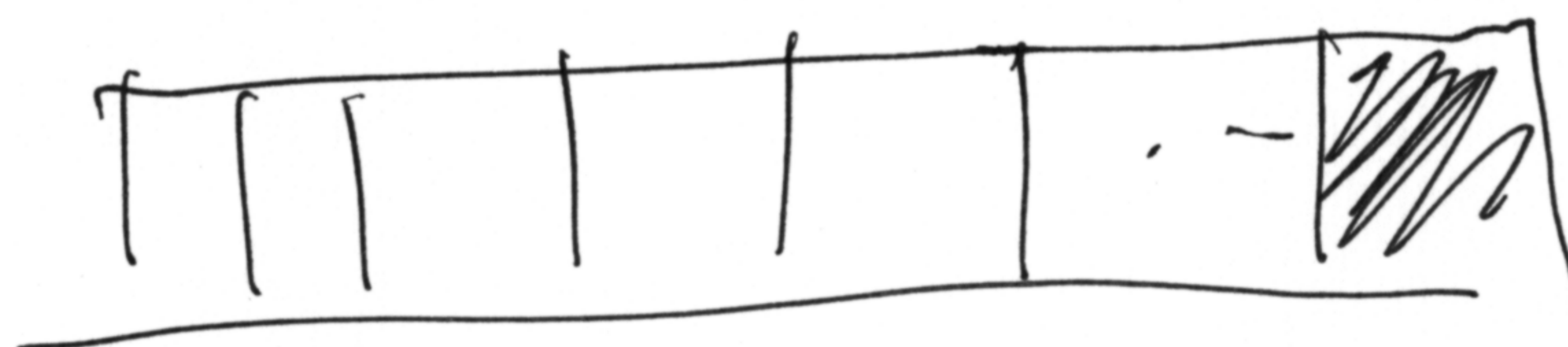
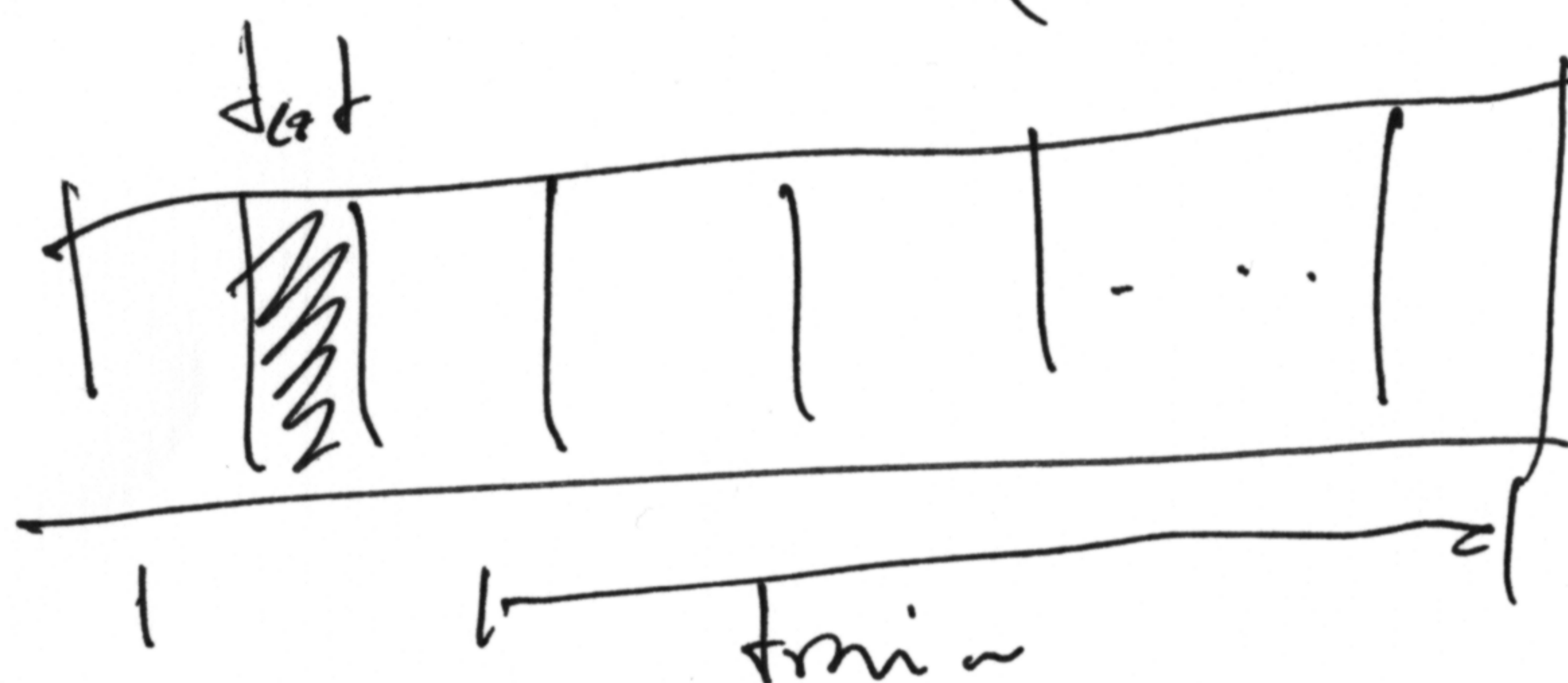
# Evaluation

Recall Sensitivity True positive rate (TPR)	$\frac{TP}{FN + TP} = \frac{TP}{P}$
False positive rate (FPR) False alarm rate	$\frac{FP}{TN + FP} = \frac{FP}{N}$
Specificity True negative rate (TNR)	$\frac{TN}{TN + FP} = \frac{TN}{N} = 1 - FPR$
Precision	$\frac{TP}{TP + FP}$
False negative rate (FNR)	$\frac{FN}{FN + TP} = \frac{FN}{P}$
Accuracy	$\frac{TP + TN}{P + N} = \frac{TP + TN}{TP + TN + FP + FN}$

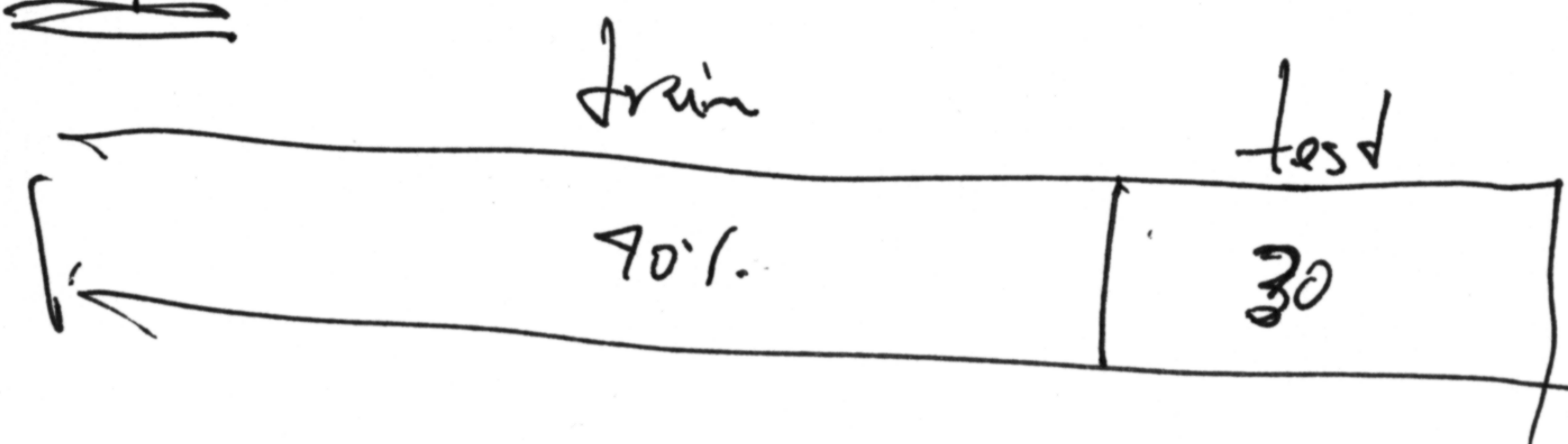
# Evaluation Method



n-fold cross validation



## V. Split



## Leave-one-out

