Evaluation metrix

① confusion metrix

x_1	x_2	Actual y	Predicted $\hat{y}$
–	–	1	1
–	–	0	1
–	–	1	0
–	–	1	1
–	–	0	1
–	–	1	0
–	–	0	0
–	–	0	1
–	–	1	1

Actual →

Predicted ↑

TP	FP
FN	TN

Actual →

	1	0
Predicted ↑ 1	2+1	3
0	2	1

(2) Accuracy

$$\frac{TP + TN}{TP + TN + FN + FP}$$

(3) Precision

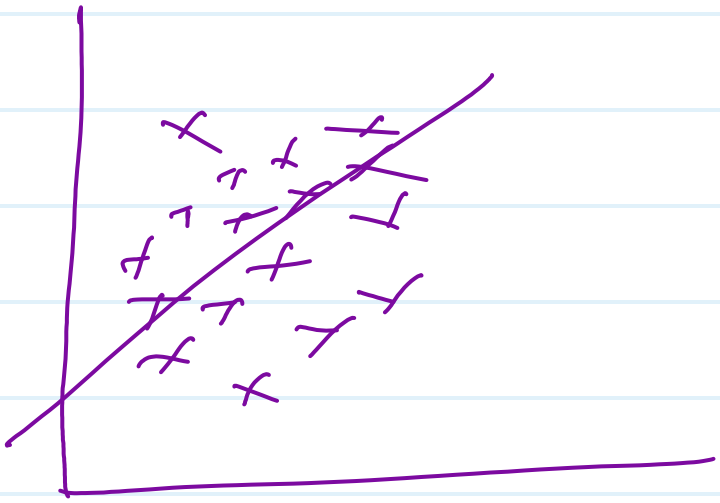
$$\frac{TP}{TP + FP}$$

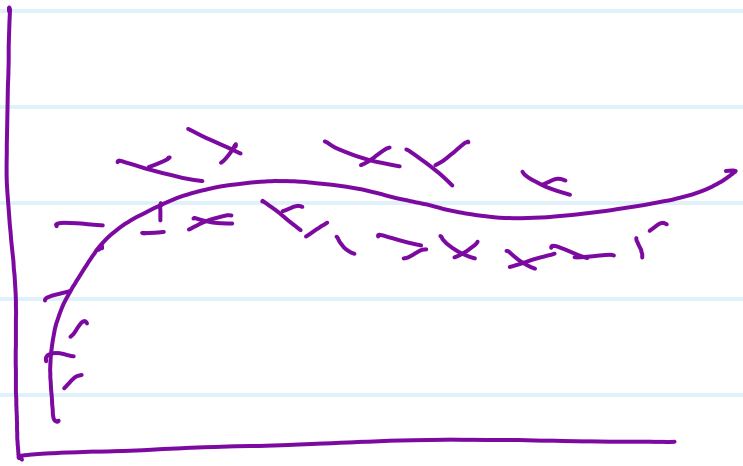
(4) Recall

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

(5) F1 B score

$$F_L \text{ score} = B \times \frac{\text{Precision} \times \text{Recall}}{\text{Precision} + \text{Recall}}$$





= Regression

LR, SVR, DT,

RF,

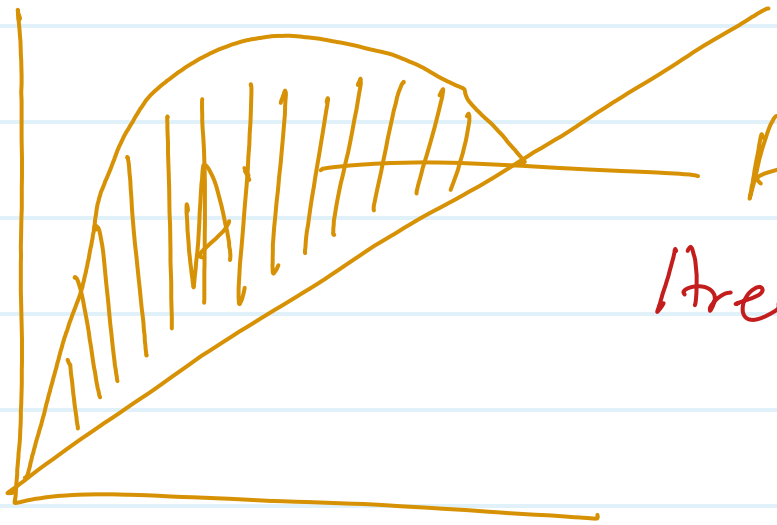
mSE
RmSE
mAE
R^2
Adj R^2

= classification

Log R., RFC, SVC

DTC -

Accuracy
Precision
Recall
F1 score
AUC, ROC



AUC

Area under the curve

① MSE	① Accuracy
② RMSE	② Precision
③ MAE	③ Recall
④ R^2	④ F-β score
⑤ Adj. R^2	⑤ AUC