

Accuracy: thou often is the classifier conect?

(model)

Accuracy = No of correctly classified items

No of all items.

Beation: when it predicts the positive result, how white label often is it correct?

Unique label often is it correct?

Binary elastification

TP + FP

Recall: when it is actually the positive secult, (Sensitivity) how often does it predict consectly? (each unique loubel)

Recall = TP ... Birony classifⁿ.

TP+FN

FI Swal! Harmonic mean of Becision and Recall.

Capplicable of Saak is applicable for each unique

for each

value of the label

value

(abel)

EI Saak = 2 * (Recall * Becision)

FI Sook = 2 * (Recall * Becision)

Recall + Becision

Note: for unbalanced dotaset to judge the

goality of the model a use

FI Score instead of Accuracy.

we can also VISUALIZE the quality of the model using

METRICS VISUAUZATION

ROC-AUC

Belanced

dataset

Sypouts

Birdy Classification

muticles classification

Becision-Recall Curve.

Unbalanced dataset.

Supports Birdry Classification

mutualous closeification

ROC - AUC ourse;

ROC - Receiver Operating Characteristics.

AUC - Asea Under Cune.

2, y plot which plots the dispession of learning of the model.

ROC

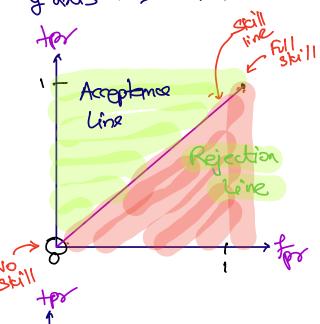
Rope of the model

2 onuis -> FPR false Rosthie Rotk = FP TN

y avis -> TPR True Postile Rate - TP (Resoul)

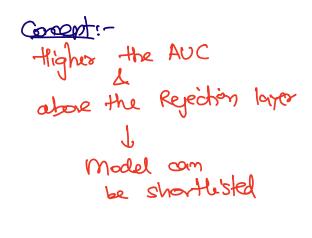
TP + FN

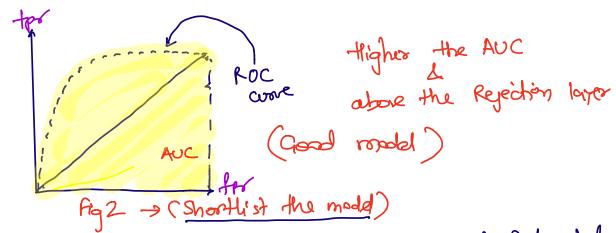
TP + FN



we are plotting the probabilities

Two pts; No Still Coordinate → (0,0) Full Still Coordinate → (1,1)





MOC is a line that defines the speed of knowledge model carries.

Note:- Tre abore is valid for Binary classification. In case of Multi-class classification, you need to creat ROC-AUC curve for each unique label.

Precision Reall Curve This curve is applicable for unbalanced dortaset 2- anis → Recall y-anu's -> Becision pscu sion AVC=0.87 still line (0,0.5)C(, 0.5) Acceptance 0.5seall paca sion AVC=0.18 Still line (0,0.5)C1,0.5) - PR } Réject Perect Scall réject