Bhy Roc cure?

ROC curve is commonly used to compare the performance of models. It is usually used in binary classification, but it can also be used in multiclass classification using averaging methods.

The AUC-ROC curve, or Area Under the Receiver Operating Characteristic curve, is a graphical representation of the performance of a binary classification model at various c<u>lassification thresholds</u>. It is commonly used in machine learning to assess the ability of a model to distinguish between two

In a Binary clanification two types of errors ar possible

Type II more important than the other

a way to reduce a certain type of error 16 by adjusting the threshold value

-> But what the roshold value is right?

ROC curve allows us to take an educated decition.

→ True Portive Rate/Recall [Benefit]

Hax (TPR) When TN=0 Min(TPR) Shen TP=0

-> False positive rate (FPR) [Cost]

Max (FPR) when TN=0 HEN(FPR) Drum FP=0 FPK
(False positive Rate)

List how many negative instances

are incorrectly classified

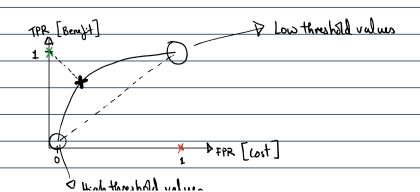
as positive instances

out of all negative Instances_

-> Ideal case TPR 100%. FPR 0%. When there are 0 misclamifications

1	
100	<u> </u>
0	100
1	

PLOTO TPR VS FPR at different threshold values



from splearn. metrics import roc-curve

