Classification Metrics (Part 2)

Dr. Kalidas Y., IIT Tirupati

64) key phrase... "Threshold on Score"

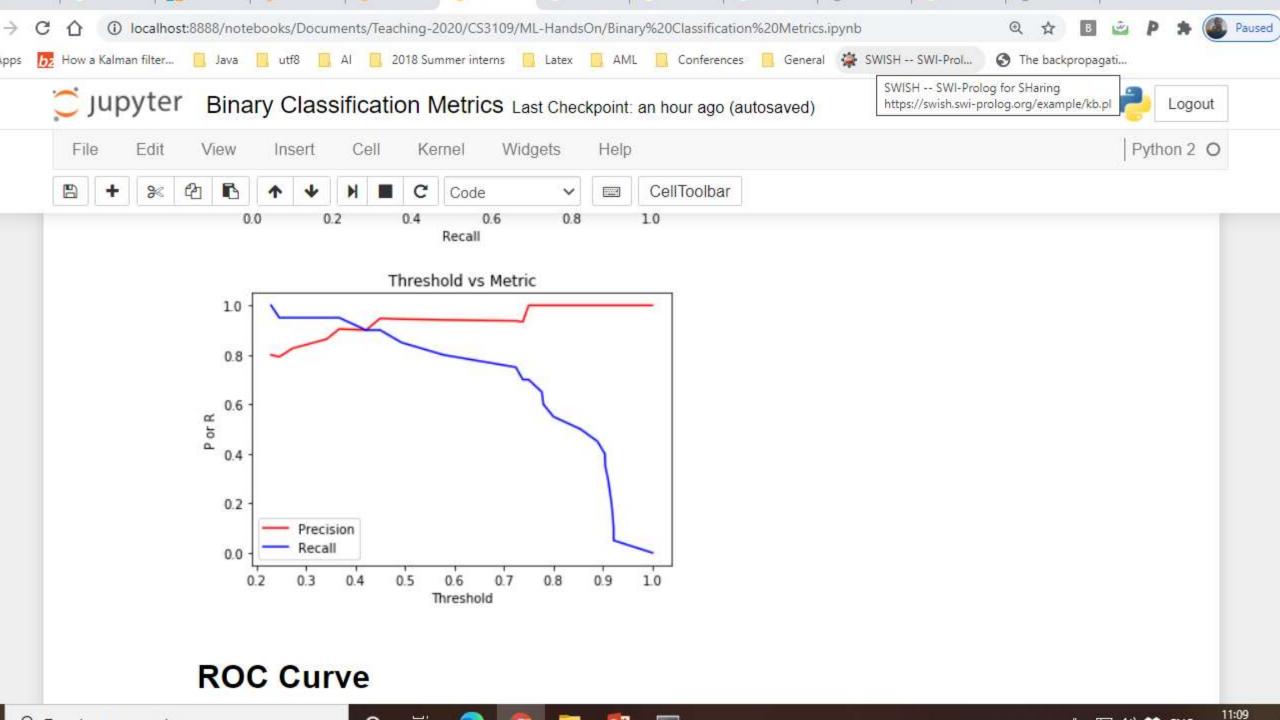
- Human to Decide
 - on which yi = 1 (positive) and
 - on which yj = 0 (negative)
- Get a Data Set
 - x1 = (1,1), y1 = 1
 - x2 = (1,2), y2 = 1
 - x3 = (1,3), y3 = 1
 - x4 = (2,1), y4 = 0
 - x5 = (3,1), y5 = 0
- Model Predictions
 - y1' = 1
 - y2' = 1
 - y3' = 0
 - y4' = 1
 - y5' = 0

- Human to Decide
 - on which yi = 1 (positive) and
 - on which yj = 0 (negative)
- Get a Data Set
 - x1 = (1,1), y1 = 1
 - x2 = (1,2), y2 = 1
 - x3 = (1,3), y3 = 1
 - x4 = (2,1), y4 = 0
 - x5 = (3,1), y5 = 0
- Model Prediction Scores
 - y1 score = 0.9
 - y2 score = 0.7
 - y3 score = 0.3
 - y4_score = 0.8
 - y5 score = 0.4

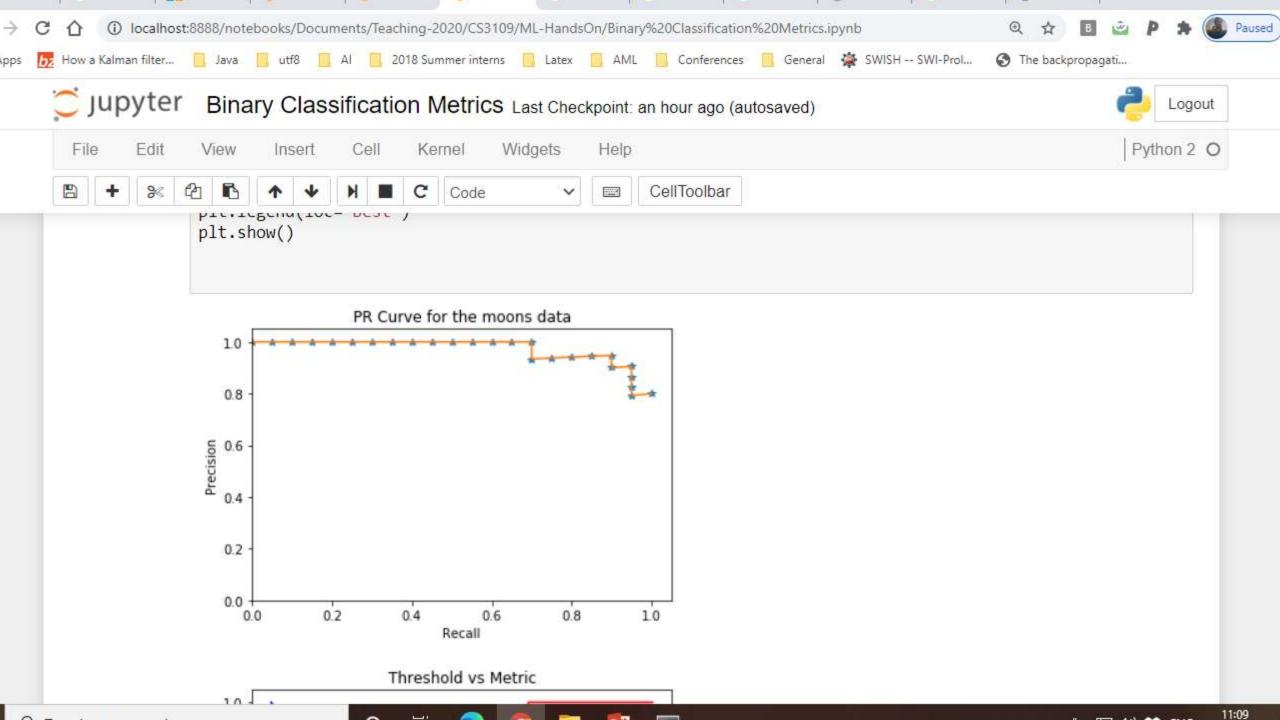
Choose a Threshold

Above which are predicted + below which are predicted -

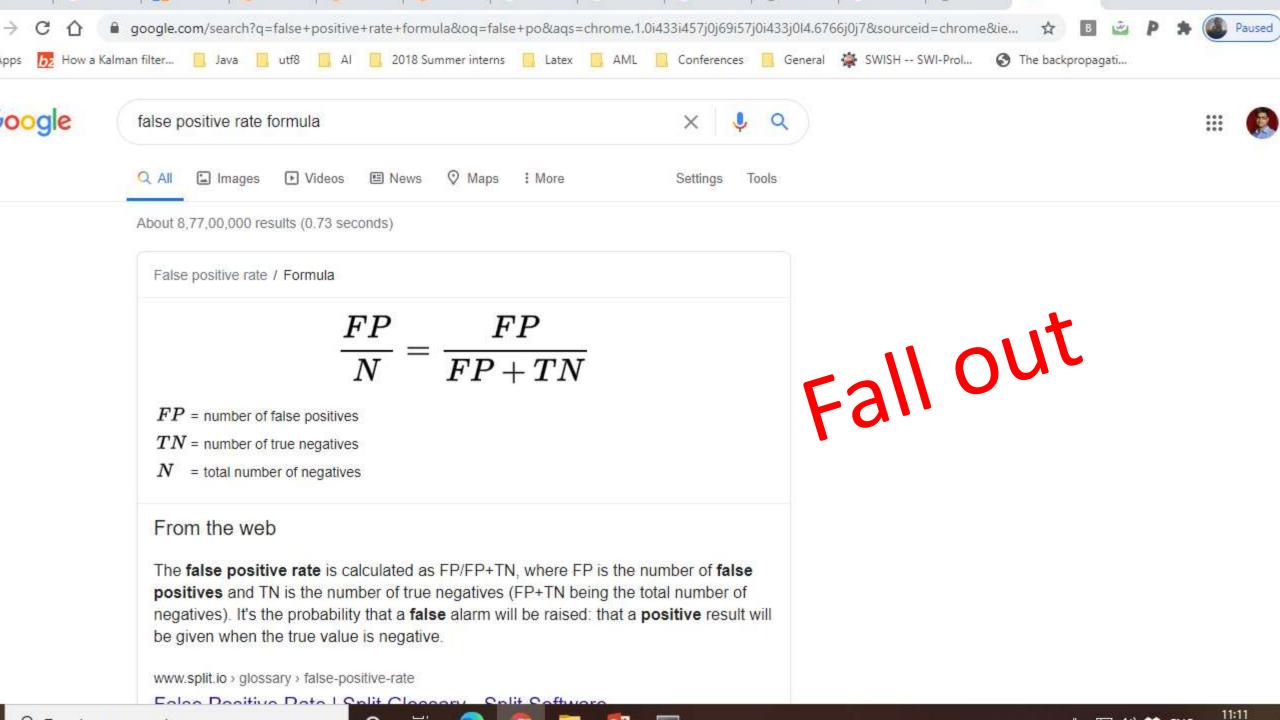
For example 0.55 ???



65) key phrase... "PR Curve"



66) key phrase... "FPR or Fall out"



67) key phrase... "AUC – Area Under Curve"

