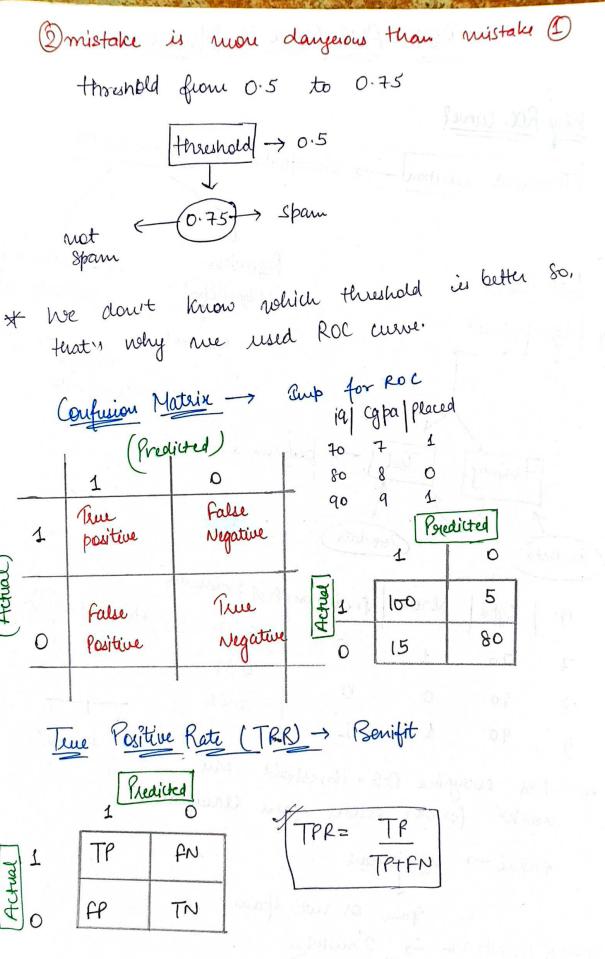
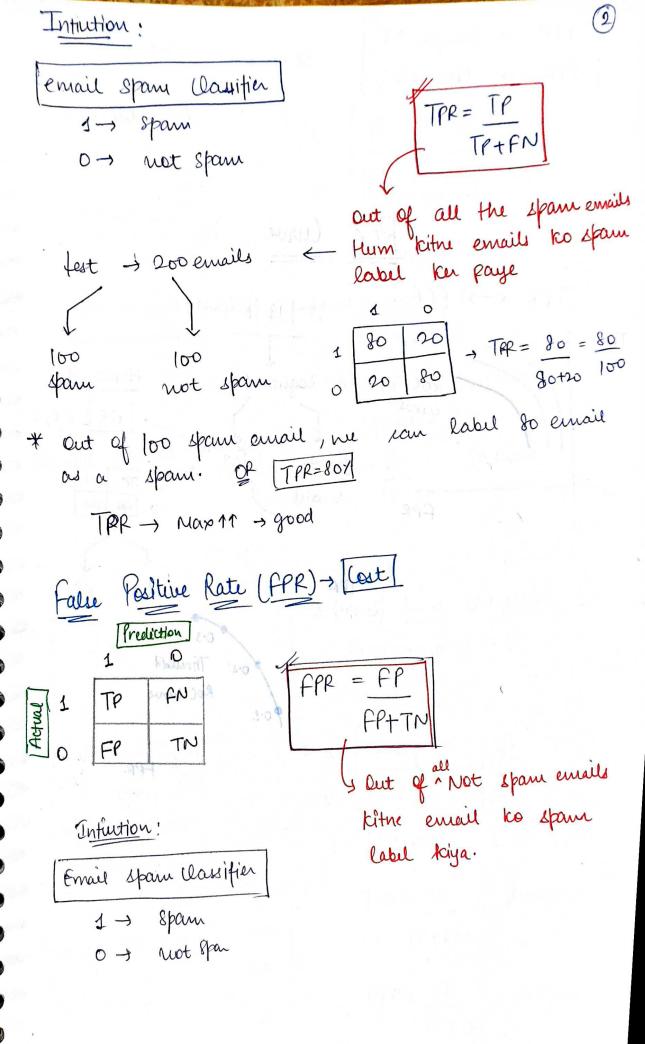
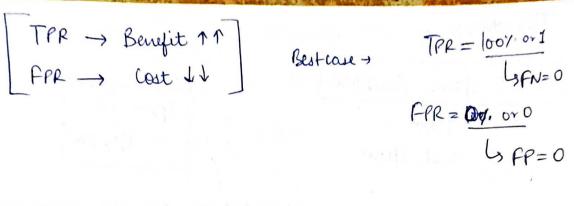
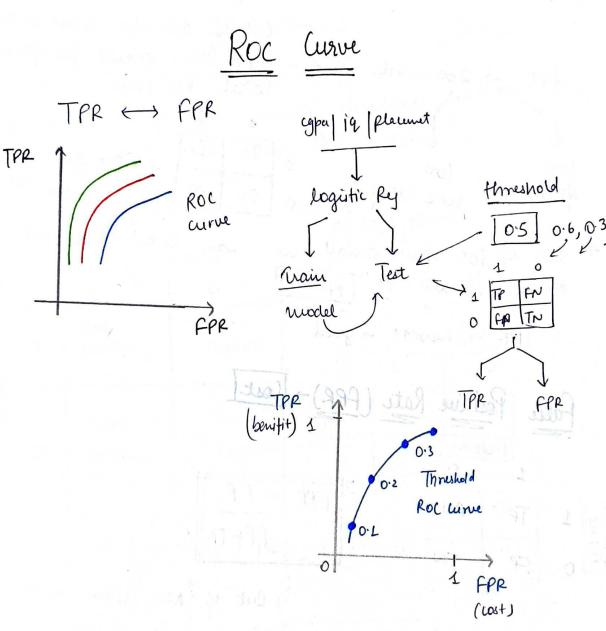
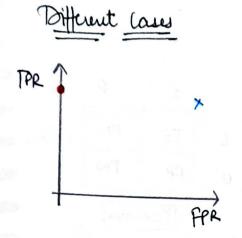
ROC-AUC Curve in Machine Learning Why Roc curre? -> classification -> Supervised ML Threshold selection classification Regression 000 data 19/ Gpa/ Place 19 Gpallbal iq | Gpa | placed Numerical binary! classification Test) -> performance 200 date 800 Data | Cgpa | placed | prediction | Pred probability threshold > (0. 0.39 0.61 1 tifino 1 Not everytim 0.5 -> Hrreshold can work for en semail span Classification email - new email Spam or not Spam binary classification -> 2 mistakes Actual data > Not span Actual data > Span Spann Not spam Predict > Predict







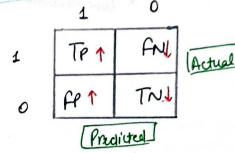






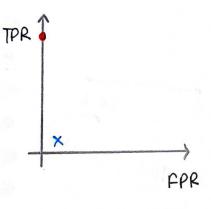
decrease threshold - FPR T

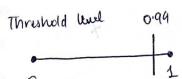
(case of



email spane classition

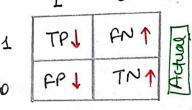
Case-II





Increase threshold -> FPR]
TPR

email spam classition large > 0.99 ~ 1



Predicted

$$TPR = \underline{TP}$$
 decrease $TP+FN$

