Final - 12-13

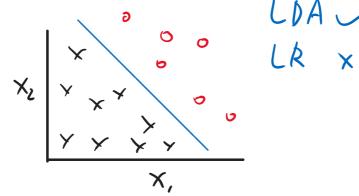
- Similar to midterm
- cumulative
- | page notes, 2-sided
- practice problems in advance
- e.g. Logistic Regression given \(\hat{\beta}_{\bullet}, \hat{\beta}_{\bullet}, \text{ \compute } P(Y=1/X)

LDA

Get linear decision boundaries between categories learn P(XIY) - distribution of X in each of the Categories of Y

X~ Multivariate Normal Distribution different means for each group Some o's, p for each group -) MUN(Mk, E)

Logistic Regression doesn't work it separate data



Regression Tree

$$p=1$$
 data = $\begin{pmatrix} X_{i}, Y_{i} \\ X_{i}, Y_{i} \end{pmatrix}$ want $f(x) = predicts Y$ at value of X
 $f(x) = \hat{\beta}_{0} + \hat{\beta}_{i} \times X$

f(x) at node = mean of Y's in that node

