

Problem 5

Tuesday, June 11, 2024

5:09 PM

- a) Training - QDA since it is more flexible and can overfit.
Test: LDA since the decision boundary is linear.
- b) Training - QDA as mentioned above can overfit.
Test - as long as we didn't overfit QDA for much then QDA since it's non linear
- c) As n increase variance decreases. So harder to overfit. Thus both would improve.
- d) False - QDA will most likely overfit the training so test will be off. Better to use LDA.