Homework 3

Deadline: March 25, 11:59 PM

Write a 5-page (maximum) report to explain your models, implementation, and results for the following questions.

Please submit two files: one PDF file (your 5-page report) and one compressed (.zip) file for your code.

Question 1) The <u>UCI Machine Learning Repository</u> has many classification problems: <u>https://archive.ics.uci.edu/ml/datasets.php</u>

Choose one of these problems/datasets, and implement Logistic Regression and Gaussian Naïve Bayes for that problem. Is GNB better than LR?, or LR is better? why?

Question 2) We saw two versions of training LR. The first one was without parameter regularization (without P(W)), and the second one was with P(W). Compare these two LR training algorithms in your dataset (defined in Question 1).

If you have any questions, please contact me: Mahdi-khodayar@utulsa.edu