CS4361/5361 Machine Learning Fall 2020

Logistic Regression Exercise 1

- 1. Convert the code provided for logistic regression to a class containing the fit and predict functions as done for knn, naïve Bayes, and linear regression.
- 2. Compare the performance of Naïve Bayes and Logistic Regression to classify the MNIST dataset by modifying the provided *mnist_comparison.py* program.
- 3. Try to improve the performance of Logistic Regression by finding optimal parameter values, or, for extra credit, implementing one or more of the ideas in slide 19.