Homework #3

CS 539, Fall 2022

100 points total [6% of your final grade]

Due: September 30, 2022 by 11:59pm

[no submission will be accepted after November 2, 2022 at 11:59pm]

Delivery: Submit via Canvas

In this assignment, you will implement logistic regression with **stochastic** gradient descent in python3. In stochastic gradient descent, you are supposed to update theta (i.e., w and b) by a training example.

In this problem, you will implement the logistic regression algorithm. We provide the following files:

- a) part1.py You will implement several functions. Do not change the input and the output of the functions.
- b) test1.py This file includes unit tests. Run this file by typing 'nosetests -v test1.py' in the terminal. No modification is required.

What to turn in:

- Submit to Canvas your part1.py.
- This is an individual assignment, but you may discuss general strategies and approaches with other members of the class (refer to the syllabus for details of the homework collaboration policy).