Assignment #3 (to be graded)

Dead line for submission=27-02-2019

1. Using the data set of two examination results design a predictor using logistic regression for predicting whether a student can get an admission in the institution. Use regularizer to further tune the parameters. Use 70 % data for training and rest 30% data for testing your predictor and calculate the efficiency of the predictor/hypothesis.

   Hints: 1. You can pre process the data for convenience

   2. You must use Python program for evaluating parameters using batch gradient descent algorithm (GDA). No function should be used for GDA.

2. Using the data set of two quality test results of a microchip product, design a predictor using logistic regression which will predict the acceptance or rejection of the microchip given the two test results. Use regularizer to further tune the parameters. Use 70 % data for training and rest 30% data for testing your predictor and calculate the efficiency of the predictor/hypothesis.

   Hints: 1. You can pre process the data for convenience

   2. You must use Python program for evaluating parameters using batch gradient descent algorithm (GDA). No function should be used for GDA.

   (While discussions are allowed, code copying is strictly prohibited.)