ECE 7650 Applied Computational Intelligence

Project 1
Linear Regression

Winter 2018

Due Date: 27 September, 11:59:59 PM.

1. Do "Exercise 2: Linear Regression" from Andrew's Ng's OpenClassroom online course:
http://openclassroom.stanford.edu/MainFolder/DocumentPage.php?course=MachineLearning&doc=exercises/ex2/ex2.html

2. Do "Exercise 3: Linear Regression" from Andrew's Ng's OpenClassroom online course: (Do not do the "Normal Equations" question.
http://openclassroom.stanford.edu/MainFolder/DocumentPage.php?course=MachineLearning&doc=exercises/ex3/ex3.html

3. Perform linear regression using the data set d2Noisy.txt.
    a. Plot the error vs iteration
    b. Plot the training data with your solution overlaid. Your figure should look similar to that shown in Fig. 1.
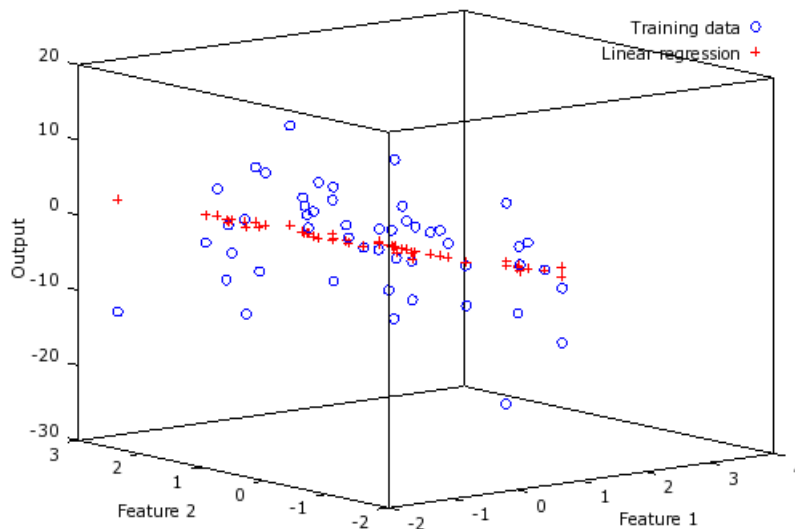   c. What is you total error after 500,000 iterations?

Fig. 1.   Training data and solution.

SUBMISSION: Submit your solution to me for marking.