

M.Tech Assignment-II

MA613 Data Mining

Date: 01-09-2014

1. (a) Implement linear regression and using it develop a model based on the following data:
 - i. : Data 1: see the attached data (The Program Effort Data)
 - ii. : Data 2: download Boston housing data from UCI web repository
 - (b) Report the preprocessing techniques you have done on the data, if any.
 - (c) Report the values of $J(w)$ for each iteration. Plot $J(w)$ for Data 1.
 - (d) Report the values of the parameters of the model.
 - (e) Assess the performance of the model.
2. Write short notes on maximum likelihood estimation.

Notes

- All the files related with the assignment should be saved in a single folder and send to sumitra@iist.ac.in.
- Last date of submission: 10-09-2014.
- **As far as assignments are concerned, students are expected to observe academic honesty and integrity. Though the students can collaborate and discuss, copying directly other students' assignment or allowing your own assignment to be copied constitute academic dishonesty and is highly discouraged.**