Lab 04

Implement Linear Regression

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Objective of this lab is Implement Linear Regression using Gradient Descent technique, and do following-

- (1) Train Linear Regression on Boston housing dataset. Data file, along with description of attributes is being made available here.
- (3) Output value of Cost Function / Error Function of trained model
- (4) Use the learned model to predict price of a house with given values as following

<0.085, 13.0, 10.5, 1.0, 0.8, 4.78, 39.0, 5.5, 5.5, 331.0, 13.3, 390.5, 17.71>

<0.17899, 0, 9.69, 0, 0.585, 5.67, 28.8, 2.7986, 6, 391, 19.2, 393.29, 17.6>

To be submitted-

- 1. Source code
- 2. Weight Vector
- 3. Value of Error Function
- 4. Cost predictions for given two examples