

CSE4020 – Machine Learning Lab – 12_01_2017

Assessment 1 – Regression Techniques

1. Consider the given data set. Create a Linear Model to

1. predict the IQ using data member brain(consider a random value)
2. predict the IQ using data member brain and weight (consider random values)
3. predict the IQ using data member brain, weight and height (consider random values)

Derive your conclusions.

2.Consider the mtcars dataset. Examine the attributes in the dataset.

- 1) Examine the logistic regression model for am as a function of wt, mpg and drat

Consider the Pima.tr dataset, examine the attributes in the data set

- 1) Fit a logistic model of type on age and bmi. Print the coefficients.
- 2) What does the model fitted in question 1) predict for someone with age say 35 and bmi of 32

Note: library(MASS)

3.Implement linear regression algorithm in Python and test the algorithm using any data set of your choice.