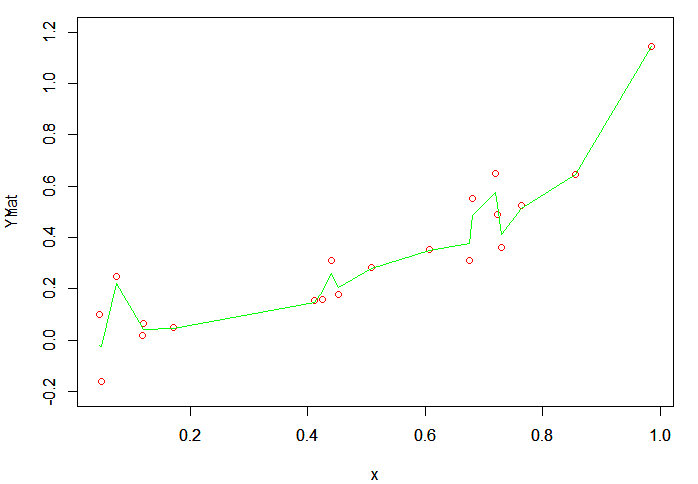
**Name: Shraddha Ashok Manchekar**

**UID: 004945217**

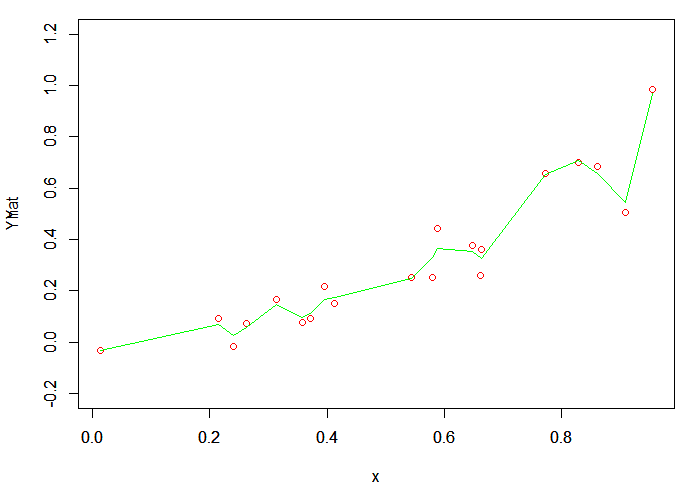
**Stats 202A: Assignment 6**

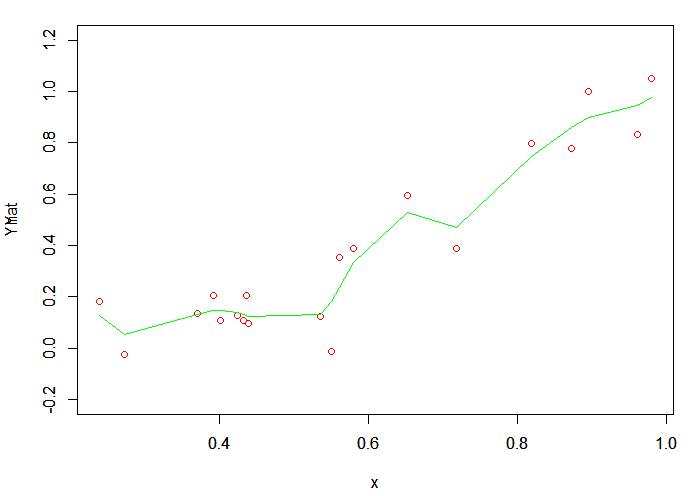
**Plots of the learned spline curves for different values of lambda:**

**Lambda = 0.0001**

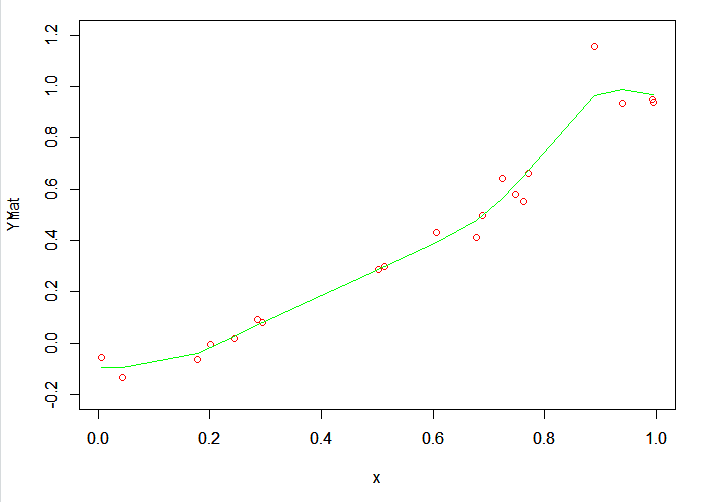
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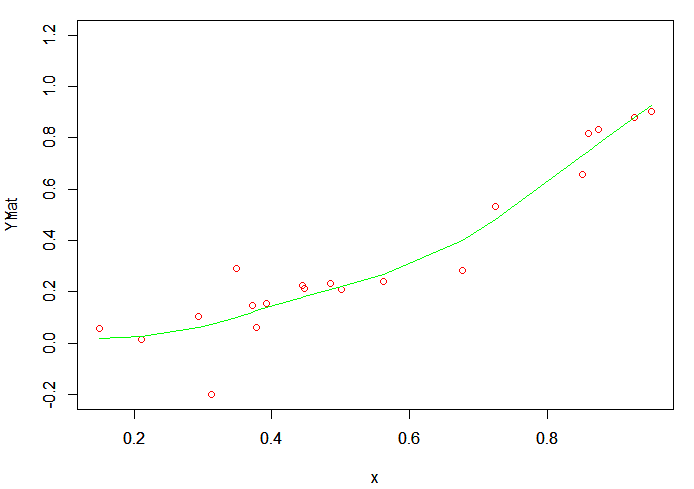
**Lambda = 0.001**

****

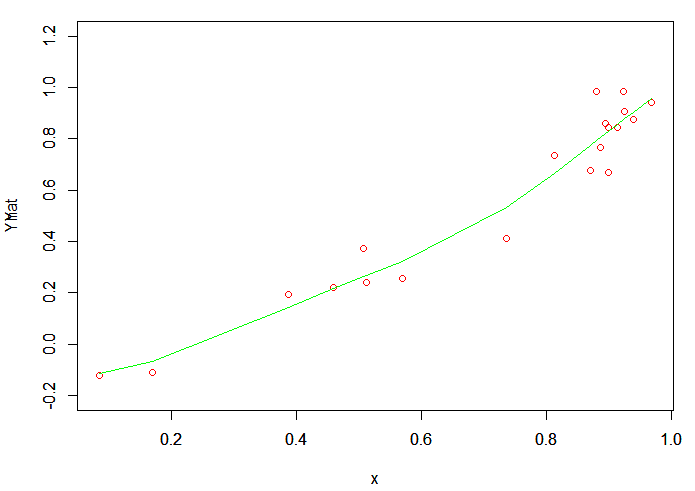
**Lambda = 0.01**

**Lambda = 0.1**

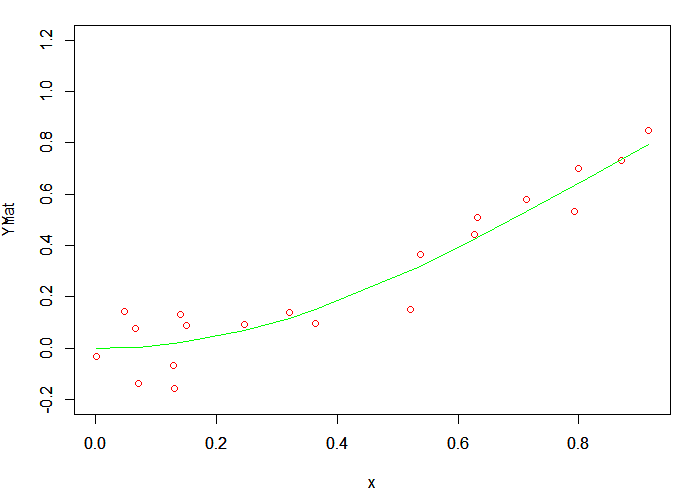
****

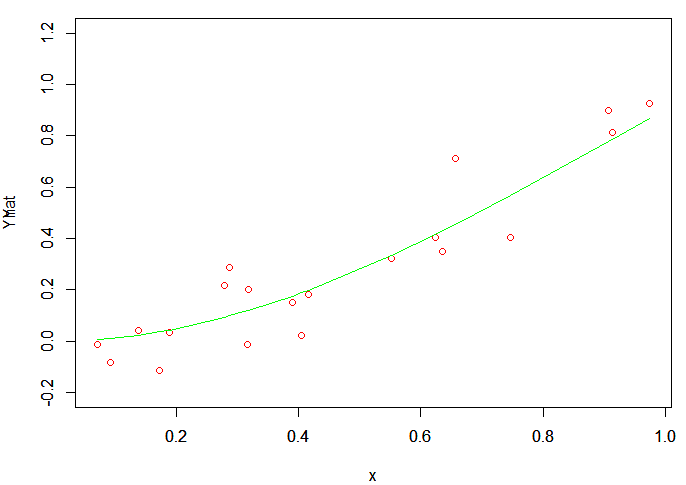
**Lambda = 0.5**

**Lambda = 1**

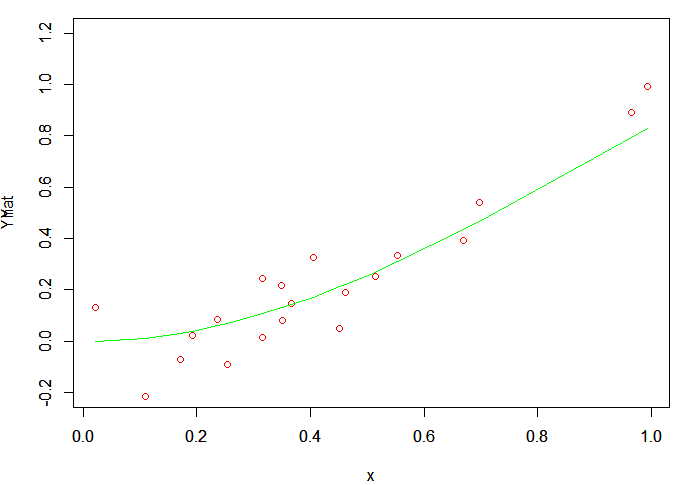
****

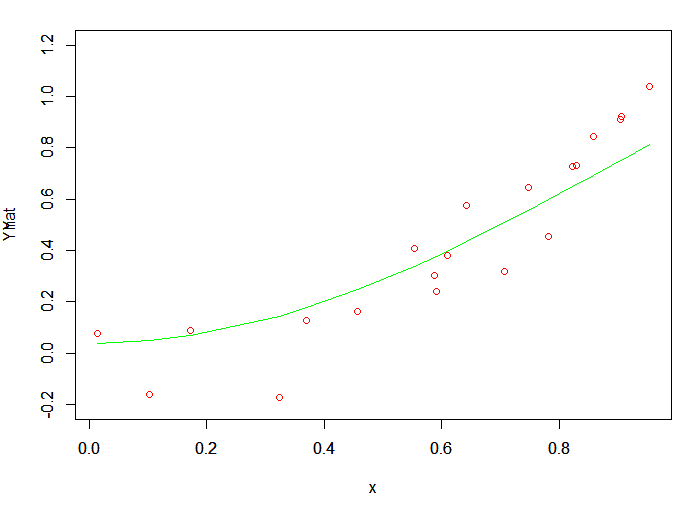
**Lambda = 10**

****

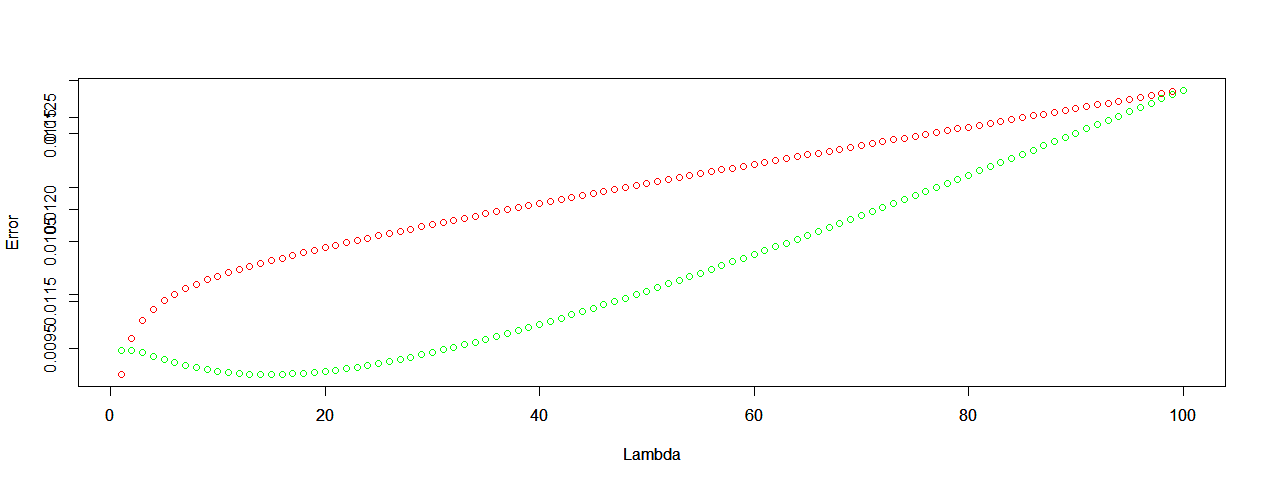
**Lambda = 25**

**Lambda = 50**

****

**Lambda = 100**

**Training and Testing Plots for Spline Curves:**



**Green is the Testing Error and Red is the Training Error.**

At a lower value of Lambda, the model is overfitting the data. Later the model improves. Towards the very end, it again starts under fitting.