

Name: Joao Taff-Freire

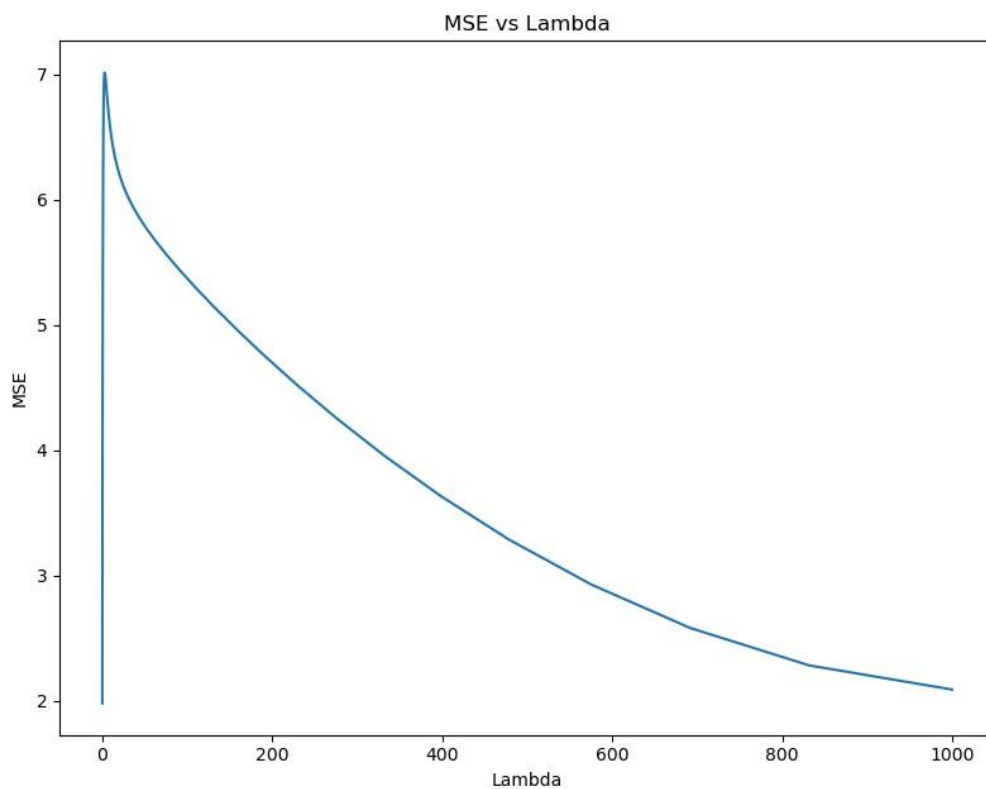
Github Username: Frucks

Purdue Username: jtafffre

Instructor: Ghasemi

Problem1_writeup

Finding Best Lambda:



Best lambda tested is 0.1, which yields an MSE of 1.9815144074868796

Equation of the best fitted model:

$$y(x) = -4.33992630 \times 10^{-1}x^5 + 8.16204762 \times 10^{-1}x^4 + 5.19495067 \times 10^{-1}x^3 + 3.83342192x^2 + 2.11359089 \times 10^{-1}x^1 - 4.53719310 \times 10^{-4}$$

$$\beta = 2.561764534953689$$

