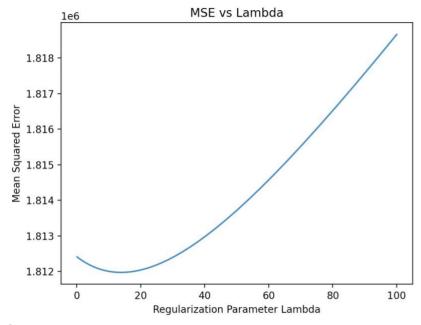
Marvin Mui

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Dr. Inouye

Problem2 writeup

## Problem 2



6. Best lambda tested is *13.489628825916533*, which yields an MSE of *1811976.5702684582*, which is the location of the minimum point on the line in the plot.

7. 
$$y(x) = 5115.65136992x_1 - 201.49769618 x_2 - 207.15474973 x_3 - 1338.29096939 x_4 + 219.18597862 x_5 - 66.36405012 x_6 + 500.9098275 x_7 + 74.30622797 x_8 - 459.07248485 x_9 + 3928.07687554$$

The predicted price for a diamond with the attributes listed in the problem is \$437.28.