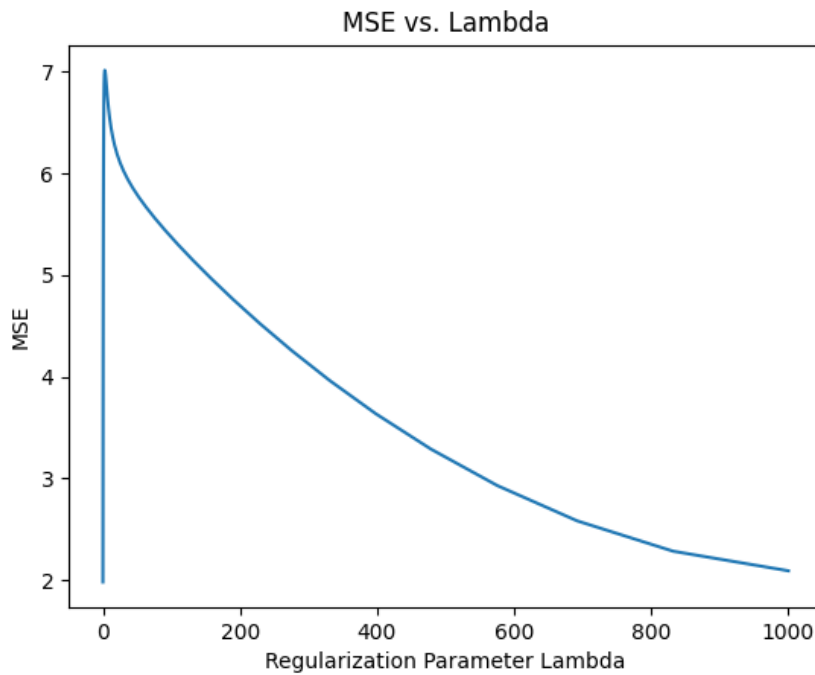


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Problem2\_writeup

**Finding best Lambda:**



Based on the range of Lambda values tested, the best lambda value is 0.1, which yields an MSE of 1.981514407520046 as shown on the plot above.

**Equation of best fitted model:**

$$\hat{y}(x) = -0.4339926x_1 + 0.8162048x_2 + 0.5194951x_3 + 3.8334219x_4 + 0.2113591x_5 + 0.0004537x_6 + 2.5617645349536864$$

**Sample prediction plot of Google data:**

