

Homework4

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Question 1A:

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Question 1B:

Using the code, the best CV E_{out} were 0.32521629424094456, 0.21622780944924624, and 0.2162218171729659. The k neighbors of these cards were 1, 285, and 277 respectively.

Question 1C:

After determining that the best k is 1, I reran the KNeighborRegression function with the all x's and y's and got the E_{out} of 1.0, though it might be worth mentioning that the E_{out} of the true y's, with the x's, resulted in -0.709875352063