Assignment 1

CS 4783/5783

[Question 1]

2. Yes.

b. Yes.

i. We can engineer new feature by introducing new polynomials using normal equation method.

ii. Adding factors in polynomial which apply mathematical operation like multiplication or division to change it to non-linearity.

[Question 2]

1. MSE 23.764

2. Number of rooms, because MSI drops to 12.87, yes we can use this feature

3. Age of home because correlation is -0.4

[Question 3]

Answer the following questions:

1. No

2. Question one predicts a linearity for entire dataset whereas in this determines the local weights using every individual data point and then generates a prediction.