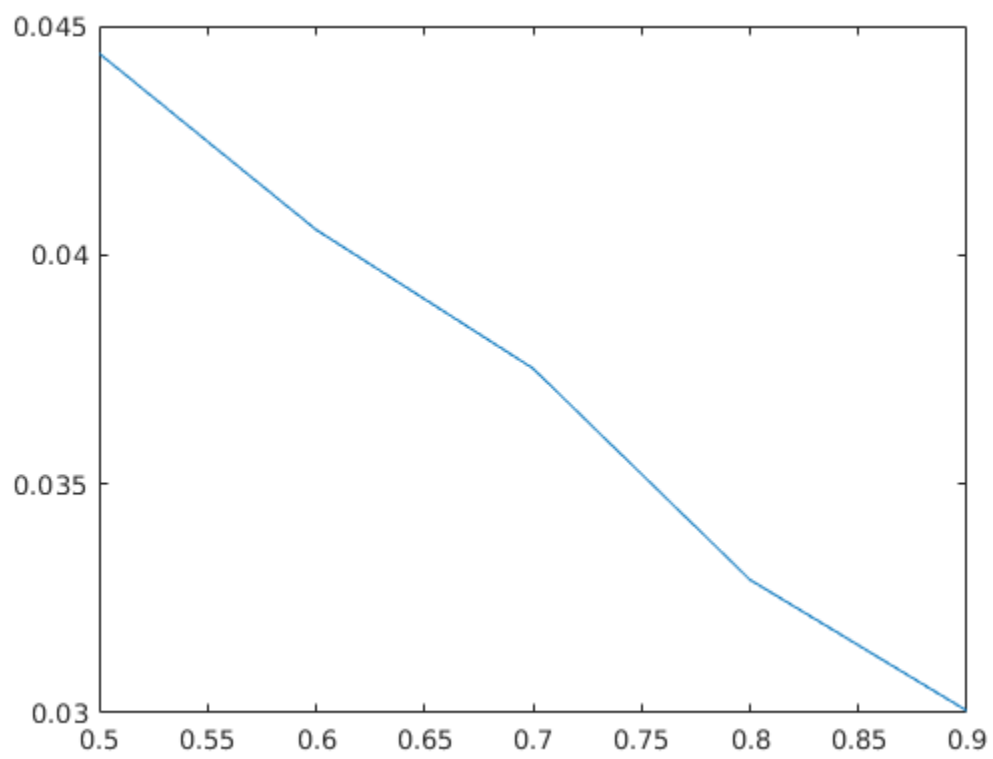


Ans 4. a.

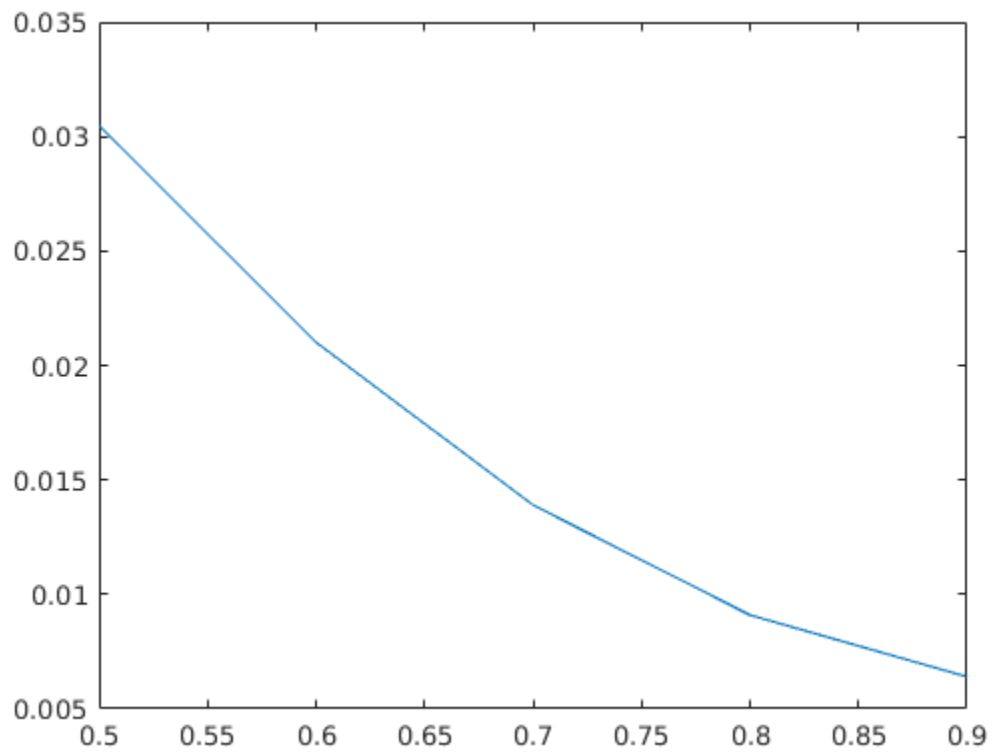
Lin dataset:

Fraction of data(x-axis) vs MSE (y -axis)



Sph dataset:

Fraction of data(x-axis) vs MSE (y -axis)

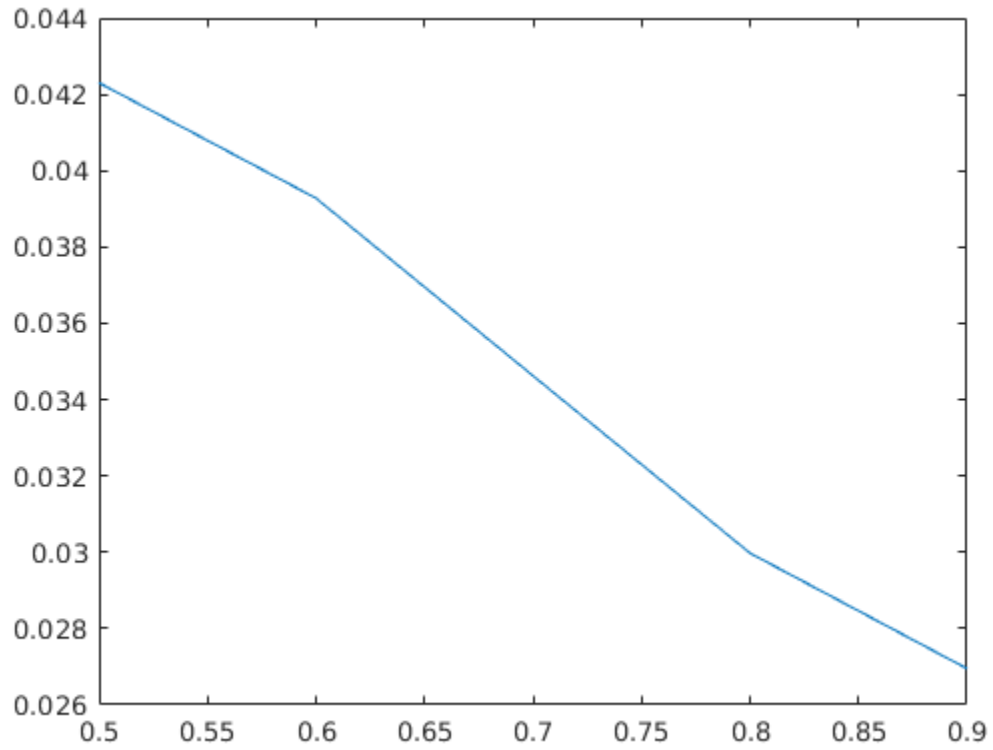


b.

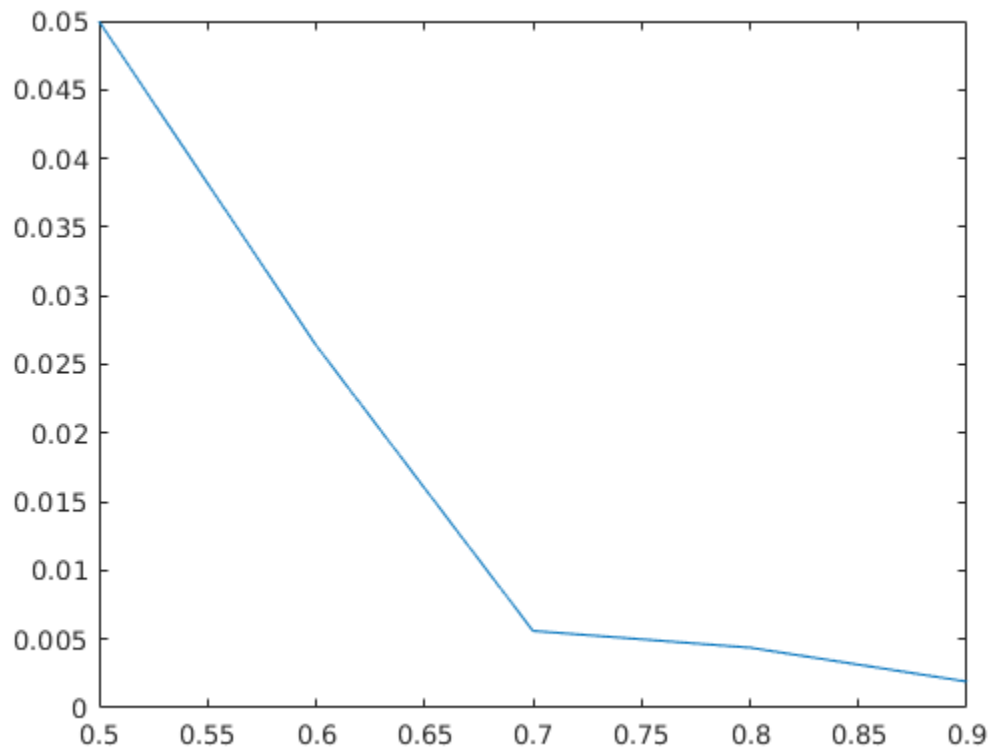
Lin dataset:

Polynomial function:

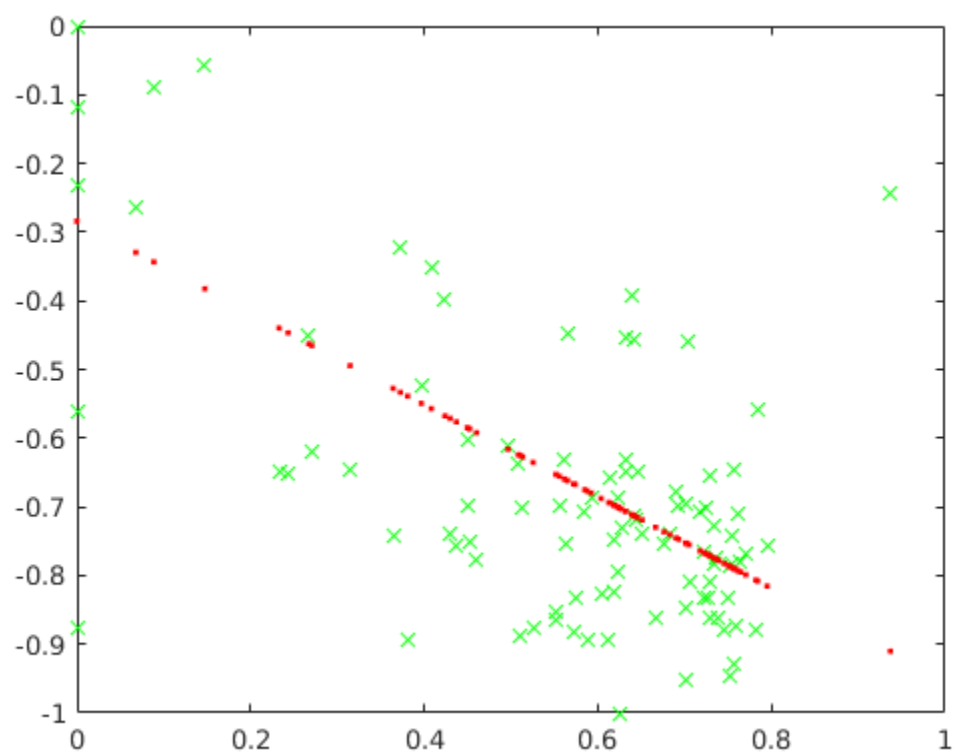
Fraction of data(x-axis) vs MSE (y-axis)



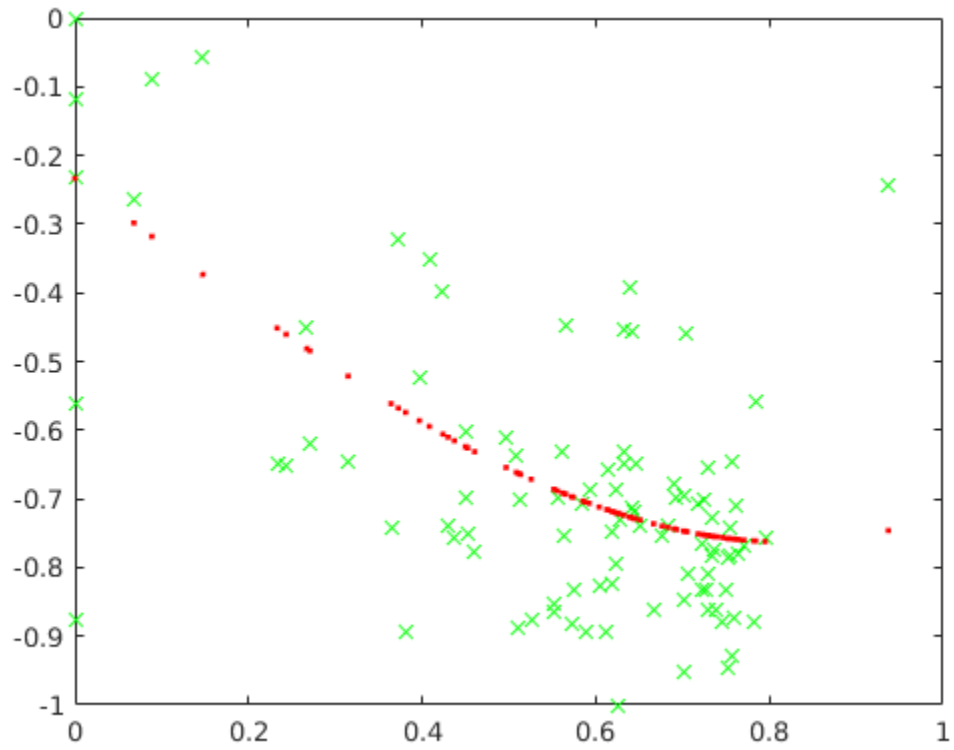
Sph dataset:  
Polynomial function:  
Fraction of data(x-axis) vs MSE (y-axis)



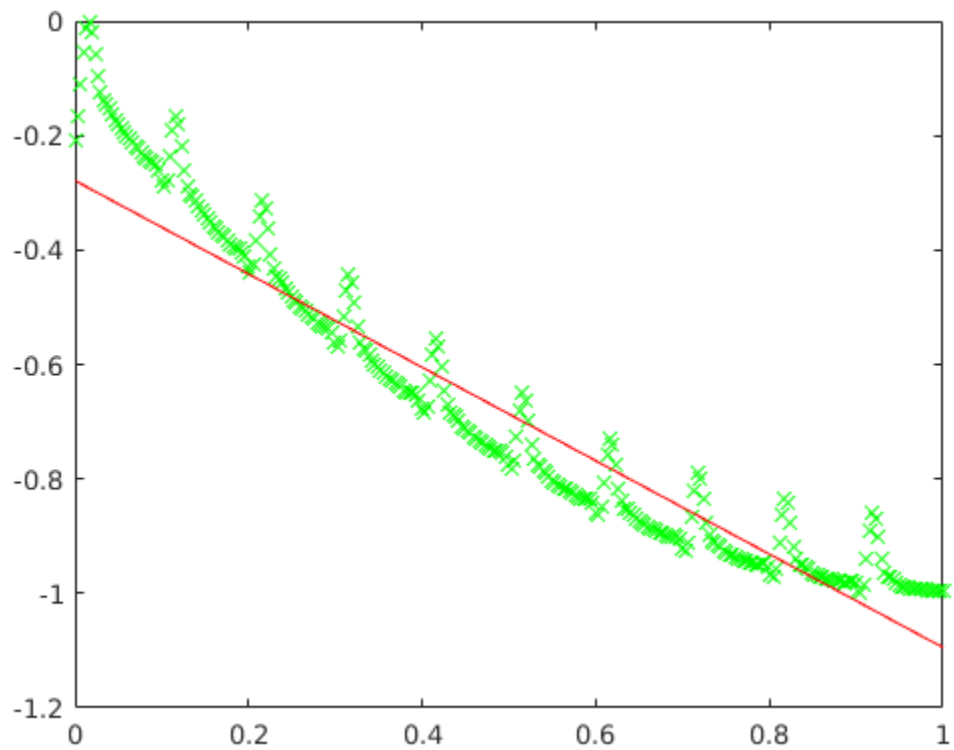
c.  
Lin dataset:  
Linear regression:



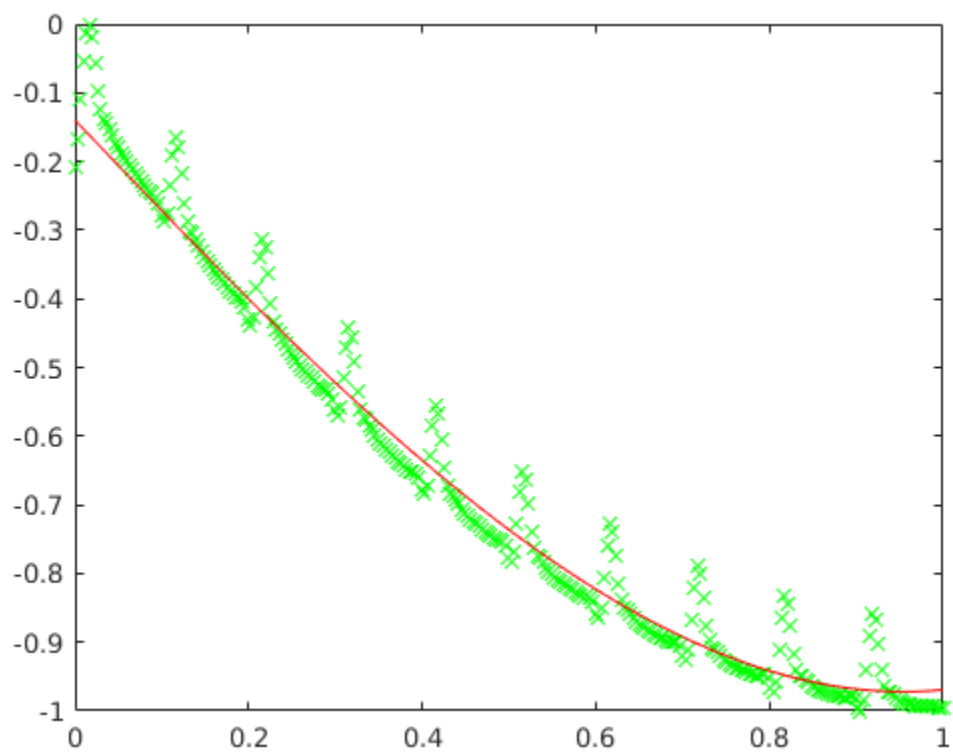
Polynomial function:



Sph dataset:  
Linear regression:



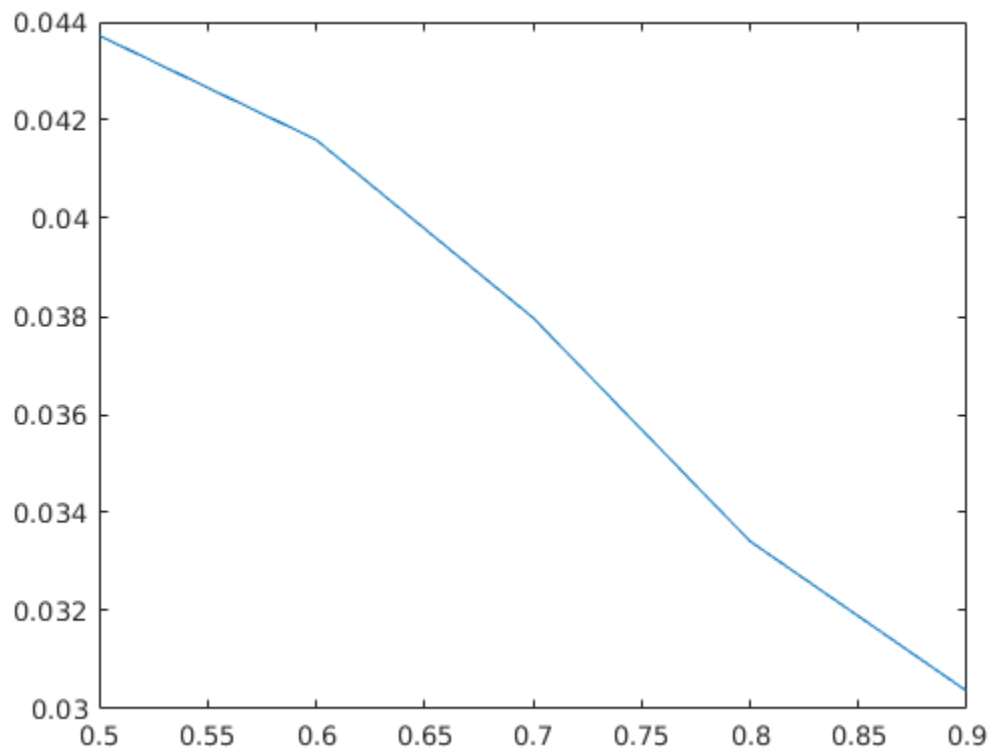
Polynomial function:



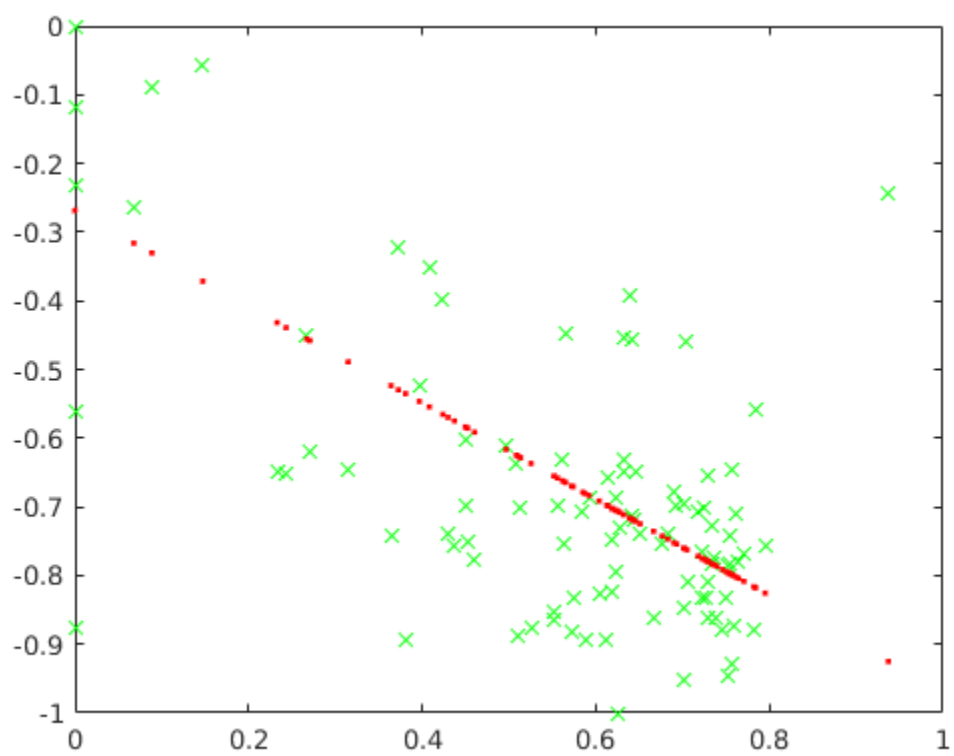
d. Ridge regression:

Lin dataset:

Fraction of data(x-axis) vs MSE (y -axis)

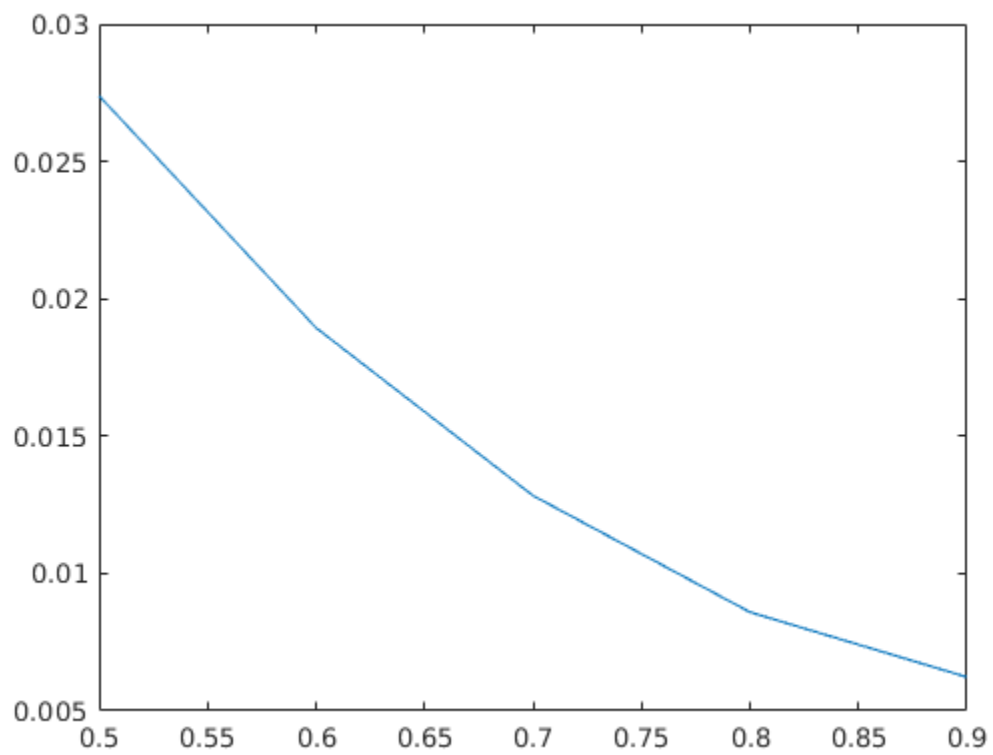


Visualization:

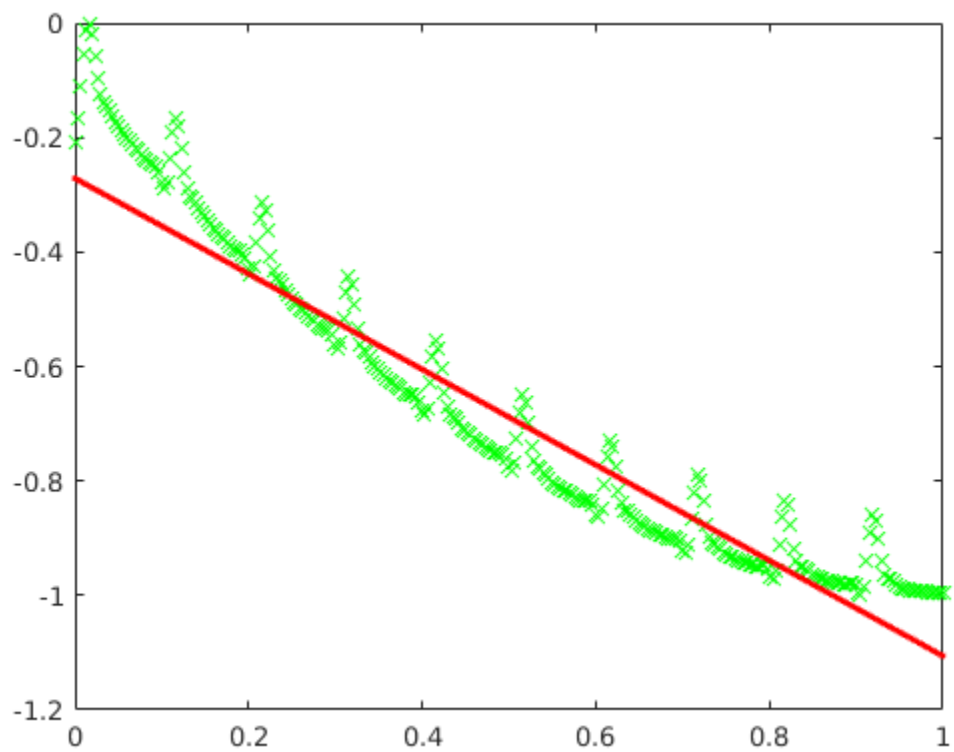


Sph dataset:

Fraction of data(x-axis) vs MSE (y-axis)



Visualization:

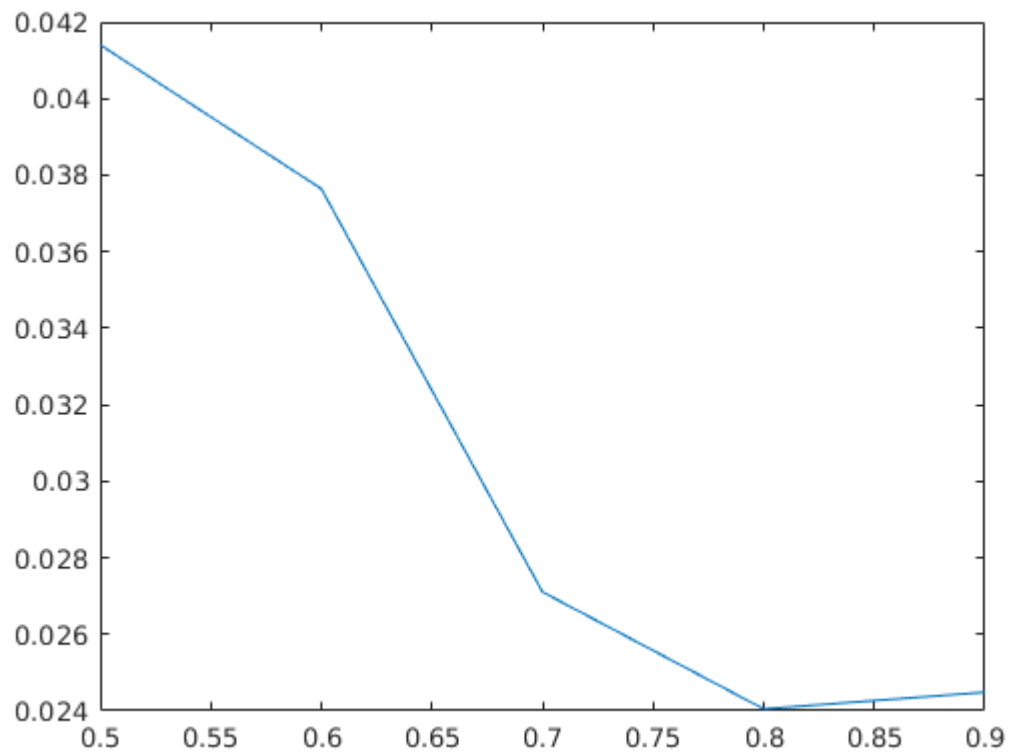




e.

Air quality dataset:

Fraction of data(x-axis) vs MSE (y -axis):



Iris dataset:

Fraction of data(x-axis) vs MSE (y -axis):

