CS6510

# HW3

a) 3a.py covers this part, where we just replace it with a tuple.

b) 3b.py covers this part where we used in-built mean and standard deviation functions and standardized each attribute.

c) 3c.py covers this part.

d) 3c.py covers this part.

e) 3c.py covers this part.

Best lambda = 0.4

Weights are printed on running 3c.py file. That gives most significant and least significant attributes.

Least significant = A2,A6,A7

Without removing least significant attributes, error = 4.95017406986

On removing, error = 5.87697275( lambda = 0.4)

f,g) Run 3f.py to see graphs.

4) I've tried Linear regression, ridge regression, gradient boosting regressor, MLP regressor and decision tree regressor.

Top 2 : Gradient Boosting Regressor, Decision Tree regressor.