Programming questions –Set 1

Use Python and relevant libraries.

Use UCS /kaggle /other data bases

Note:Try to use databases which are not widely used

Implement the following algorithms

1. Gradient descent with different values of the learning parameter. Show with the help of a simulated figure, how convergence rates change .
2. Linear regression with

a)one parameter

b) more than one parameter

iii) Logistic regression

iv)Decision Tree

v)Naïve Bayes algorithm

vi)Random Forest

vii)SVM

viii)Perceptron