Machine learning-worksheet-1

QUESTION-1

ANSWER->(B) 0(n)

QUESTION-2

ANSWER->(C)Polynomial Regression

QUESTION-3

ANSWER->(B)Gradient descent

QUESTION-4

ANSWER->(c) LASSO

QUESTION-5

ANSWER->(A)Stochastic )Gradient descent

QUESTION-6

ANSWER->(B)False

QUESTION-7

ANSWER->( C ) It does not matter whether half is there or not.

QUESTION-8

ANSWER->(B) CORRELATION

QUESTION-9

ANSWER->( A)We don’t have to choose the learning rate.

(B)It becomes slow when number of features are large.

QUESTION-10

ANSWER->(A)Linear regression will have high bias and low variance.

QUESTION-11

ANSWER->( c)It discovers casual relationship.

QUESTION-12

ANSWER->We can use batch gradient descent ,stochastic gradient descent or mini-batch gradient descent.stochastic gradient descent and mini-batch gradient descent are the most preferable algorithms as neither of them need to load the entire dataset into memory in order to take 1step of gradient descent.

QUESTION-13

ANSWER->The Gradient Descent suffers if the features in the training set have very different scales, as the model will take a longer time to reach the global maximum.

The **normal equation** method does’nt require normalizing the features, so it remains unaffected by features in the training set having very different scales. Feature scaling is required for the various gradient descent algorithms. Feature scaling will help gradient descent converge quicker.