MACHINE LEARNING – WORKSHEET-1

ANSWERSHEET

1. **B**
2. **C**
3. **B**
4. **C**
5. **D**
6. **B**
7. **C**
8. **B**
9. **A, B, D**
10. **A, D**
11. **C, D**

SUBJECTIVE ANSWER

Answer 12:

All Gradient Descent Linear Regression training algorithm can we use if we have a training set with millions of features. Gradient Descent Linear Regression are:

- Stochastic Gradient Descent (SGD)
- Batch Gradient Descent (BGD)
- Mini-Batch Gradient Descent (MBGD)

Because neither of them needs to load the entire dataset into memory in order to take 1 step of gradient descent.

The normal equations method would not be a good choice because it is computationally inefficient. The main cause of the computational complexity comes from inverse operation on an (n x n) matrix.

Answer 13:

The Gradient Descent suffers from features of different scales, because the model will take a longer time to reach the global maximum. We can always scale the features to eliminate this problem.

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