Assignment 4

The due date for submitting this assignment has passed. Due on 2019-02-27, 23:59 IST.
As per our records you have not submitted this assignment.

1) 

No, the answer is incorrect.
Score: 0

Accepted Answers:

2) 

No, the answer is incorrect.
Score: 0

Accepted Answers:

3) Which of the following statements are True? Check all that apply:

- If a learning algorithm is suffering from high bias, only adding more training examples may not improve the test error significantly.
- A model with more parameters is more prone to overfitting and typically has a higher variance.
- When debugging learning algorithms, it is useful to plot a learning curve to understand if there is a high bias or high variance problem.
- Increasing degree of the polynomial in curve fitting will increase the bias in the model

No, the answer is incorrect.
Score: 0

Accepted Answers:

If a learning algorithm is suffering from high bias, only adding more training examples may not improve the test error significantly.
A model with more parameters is more prone to overfitting and typically has a higher variance.
When debugging learning algorithms, it is useful to plot a learning curve to understand if there is a high bias or high variance problem.
4) The figure below shows the plot of the learning curves of a learning algorithm. It is found that it has an unacceptably high error on the test set. What is the algorithm suffering?

- High Variance
- High Bias
- High Variance and Low bias
- None

No, the answer is incorrect.
Score: 0
Accepted Answers:
High Bias

5) Suppose you have implemented a regularized linear regression model. You observe that on the held out testing set, the model makes unacceptably large errors with its predictions. However, you observe that the model performs well (has a low error) on the training set. Which of the following steps can be incorporated to lower the error on testing dataset. Select all that apply.

- Try using a smaller set of the features
- Try decreasing the regularization parameter $\lambda$
- Get more training examples
- Use fewer training examples

No, the answer is incorrect.
Score: 0
Accepted Answers:
Try using a smaller set of the features
Get more training examples

6) Suppose you have implemented a regularized linear regression model. You observe that on the held out testing set, the model makes unacceptably large errors with its predictions. Furthermore, you observe that the model performs poorly on the training set. Which of the following steps can be incorporated to lower the error on the testing dataset. Select all that apply

- Try to obtain an additional set of features
- Try increasing the regularization parameter $\lambda$
- Get more training examples
- Try adding polynomial features

No, the answer is incorrect.
Score: 0
Accepted Answers:
Try to obtain an additional set of features
Get more training examples

7) Suppose you are training a regularized linear regression model. Check which of the following statements are true? Select all that apply.

- The regularization parameter $\lambda$ value is chosen so as to give the lowest training set error
- The regularization parameter $\lambda$ value is chosen so as to give the lowest cross validation error
- The regularization parameter $\lambda$ value is chosen so as to give the lowest test set error
- The performance of a learning algorithm on the training set will typically be better than its performance on the test set

No, the answer is incorrect.
Score: 0
Accepted Answers:
The regularization parameter $\lambda$ value is chosen so as to give the lowest cross validation error
The performance of a learning algorithm on the training set will typically be better than its performance on the test set
8) Which of the following is the correct answer?

- 1.03125
- 2.03125
- 3.03125
- 4.03125

No, the answer is incorrect.
Score: 0
Accepted Answers:
2.03125

9) What is the cost now?

- 0.4292
- 1.4292
- 2.4292
- 3.4292

No, the answer is incorrect.
Score: 0
Accepted Answers:
0.4292