Assignment 7

The deadline to submit this assignment has passed.

As per our records you have not submitted this assignment.

Due on 2019-08-18, 23:59 IST.

1. For the ROC curve of True positive rate vs False positive rate, which of the following are true?
   - The curve is always concave (negative convex)
   - The curve is never concave
   - The curve may or may not be concave
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   True

2. For large datasets, we should always be choosing large k in while doing k-fold cross validation to get better performance on test set.
   True

3. For the given confusion matrix, compute the recall

<table>
<thead>
<tr>
<th>Predicted Positive</th>
<th>Predicted Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>True Positive</td>
<td>8</td>
</tr>
<tr>
<td>False Positive</td>
<td>3</td>
</tr>
<tr>
<td>True Negative</td>
<td>7</td>
</tr>
<tr>
<td>False Negative</td>
<td>2</td>
</tr>
</tbody>
</table>

   - 0.73
   - 0.7
   - 0.8
   - 0.78
   - None of the above
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   False

4. For the confusion matrix given in previous question, compute specificity
   - 0.73
   - 0.7
   - 0.8
   - 0.78
   - None of the above
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   0.79

5. Precision is inversely proportional to recall
   - True
   - False
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   True

6. Which of the following are true?
   - In bagging, the final bagged classifier is guaranteed to be better than individual classifiers
   - Committee machines assign constant weights to each classifier equally
   - Stacking can learn the weights to be assigned for each classifier
   - In stacking, weights can not be a function of inputs
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   False

7. Which of the following is true regarding committee machines and stacking?
   - Committee machines have more number of parameters compared to Stacking
   - Stacking has more number of parameters compared to committee machines
   - Both have equal number of parameters
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   True

8. Which of the following is correct regarding bagging and boosting?
   - Bagging is known to reduce variance
   - Boosting models can be trained in a parallel manner
   - Boosting algorithm finds the 0th classifier sequentially by minimizing the residual error from the (k-1) classifiers
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   False

9. Which of the following measure best analyzes the performance of a classifier?
   - Precision
   - Recall
   - Accuracy
   - Time complexity
   - Depends on the application
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   Depends on the application