

## Lesson 6 Quiz

测验, 4 个问题

1  
point

1.

Which of the following measures can be used as internal measures for clustering validation?

☒

Modularity

☐

False positive

☐

Conditional entropy

☐

Jaccard coefficient

☐

Normalized mutual information

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1  
point

2.

The following table summarizes the clustering results of a newly designed algorithm where  $C_1$ ,  $C_2$ , and  $C_3$  denote the clusters, while  $T_1$ ,  $T_2$ , and  $T_3$  are ground truth. Based on the table, calculate the purity of the clustering algorithm.

☒

0.65

☐

0.6

☐

0.667

☐

1

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0.35

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3.

The following table summarizes the clustering results of a newly designed algorithm where  $C_1$ ,  $C_2$ , and  $C_3$  denote the clusters, while  $T_1$ ,  $T_2$ , and  $T_3$  are ground truth. Based on the table, calculate the maximum matching score of the clustering algorithm.

☒

0.55

☐

0.6

☐

0.597

☐

1

☐

0.45

1

point

4.

The following table summarizes the clustering results of a newly designed algorithm where  $C_1$ , and  $C_2$  denote the clusters, while  $T_1$ , and  $T_2$  are ground truth. Which of the following statements are correct? Select all that apply.

☒

The true positive is 53.

☐

The true positive is 62.

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☒

The true negative is 62.

☐

The true negative is 53.



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