

109-2 人工智慧概論 模擬期中考

* Required

1. Email address *

2. Student ID

3. Name

4. Which scales can be used for discrete data?

1 point

Check all that apply.

- Nominal
- Ordinal
- Interval
- Ratio

5. Which algorithm can be used for unsupervised learning?

1 point

Mark only one oval.

- kNN
- k-means
- KFC
- k-fold cross validation

6. Given a training sample, suppose its true label $y=0$, and our prediction $p = 0.8$, what is the binary cross entropy loss? 0 points

Mark only one oval.

- 0.2
- 0.8
- $-\log(0.2)$
- $-\log(0.8)$

7. The process of reducing overfitting can be viewed as a bias-variance tradeoff. In general, which type of error is larger with the model capacity increases? 1 point

Mark only one oval.

- Bias
- Variance
- Both
- None

8. Here is a COVID-19 test result. The rows are predictions while the columns are true condition. Positive means the patient is infected. What is the accuracy of the test? 2 points

COVID-19 Test			
		True Condition	
		Positive (infected)	Negative
Prediction	Positive	2	1
	Negative	2	5