

Machine Learning and Applications GLOW-2022

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Started on Friday, 26 August 2022, 6:31 PM

State Finished

Completed on Friday, 26 August 2022, 6:41 PM

Time taken 10 mins 1 sec

Marks 8.00/18.00

Grade 4.44 out of 10.00 (44%)


Question 1

Incorrect

Mark 0.00 out of 1.00

The process of finding the regression function is done by finding the right Theta, with the indicator...

Select one:

- ☐ a. Minimum cost function
- ☒ b. All correct 
- ☐ c. Minimum Theta
- ☐ d. Minimum Probability

The correct answer is: Minimum cost function


Question 2

Correct

Mark 1.00 out of 1.00

Can logistic regression perform multiclass classification..

Select one:

- ☒ a. No, It can't 
- ☐ b. Yes, It can

The correct answer is: No, It can't

Question 3

Incorrect

Mark 0.00 out of 1.00

The following statements about Logistic Regression are correct.....

Select one:

- ☐ a. Logistics Regression performs a classification by determining the probability value
- ☒ b. Regression form used to classify ✗
- ☐ c. Discrete targets
- ☐ d. All correct

The correct answer is: All correct

Question 4

Incorrect

Mark 0.00 out of 1.00

What is the probability threshold that distinguishes positive and negative classes in logistic regression....

Select one:

- ☐ a. 1
- ☐ b. 0.5
- ☐ c. 0
- ☒ d. All wrong ✗

The correct answer is: 0.5

Question 5

Correct

Mark 1.00 out of 1.00

1) the prediction result is determined from the highest probability value of the three classes, 2) Calculate the score of all instances $S_k(x)$ in each class, 3) Calculate the probability p_k that an instance belongs to class k . What is the order of the softmax regression..

Select one:

- ☒ a. 2, 3, 1 ✓
- ☐ b. 1, 3, 2
- ☐ c. 1, 2, 3
- ☐ d. 3, 2, 1

The correct answer is: 2, 3, 1

Question 6

Incorrect

Mark 0.00 out of 1.00

What function is used to determine probability in logistic regression

Select one:

- ☐ a. Exponential Function
- ☒ b. Linier Function ✗
- ☐ c. Quadratic Function
- ☐ d. Sigmoid function

The correct answer is: Sigmoid function

Question 7

Incorrect

Mark 0.00 out of 1.00

To get the right line in linear regression, we must minimize the parameter

Select one:

- ☒ a. alpha (learning rate) ✗
- ☐ b. cost-function
- ☐ c. Feature
- ☐ d. Weight

The correct answer is: cost-function

Question 8

Correct

Mark 1.00 out of 1.00

Which of the following statements is wrong..

Select one:

- ☐ a. An instance is a set of input output data or also known as a training example.
- ☐ b. Feature is input variable
- ☒ c. The number of training sets is the same as the number of features ✓
- ☐ d. Target is the predicted output variable

The correct answer is: The number of training sets is the same as the number of features

Question 9

Correct

Mark 1.00 out of 1.00

Here's how to optimize minimizing the cost function...

Select one:

- ☐ a. Iteration for optimazion (Gradient Descent)
- ☐ b. Normal Equation
- ☒ c. All answer is correct ✓

The correct answer is: All answer is correct

Question 10

Correct

Mark 1.00 out of 1.00

Regresi Linier merupakan tipe machine learning..

Select one:

- ☒ a. Supervised Learning ✓
- ☐ b. unsupervised Learning
- ☐ c. Semisupervised learning
- ☐ d. Reinforcement Learning

The correct answer is: Supervised Learning

Question 11

Incorrect

Mark 0.00 out of 1.00

Which of the following types of gradient descent uses the entire training set in the learning process?

Select one:

- ☒ a. Mini-Batch Gradient Descent (MBGD) ✗
- ☐ b. Stochastic Gradient Descent (SGD)
- ☐ c. Batch Gradient Descent (BGD)
- ☐ d. All answer is uncorrect

The correct answer is: Batch Gradient Descent (BGD)

Question 12

Incorrect

Mark 0.00 out of 1.00

To adjust the speed of the optimization process in the search for the minimum cost function, what parameters must be set...

Select one:

- ☐ a. All answer is uncorrect
- ☒ b. Theta (bobot) ✖
- ☐ c. learning rate (alpha)

The correct answer is: learning rate (alpha)

Question 13

Incorrect

Mark 0.00 out of 1.00

Based on the questions above, which of the following questions is wrong...

Select one:

- ☐ a. column species is the target or label
- ☐ b. The number of instances or datasets or samples is only 5
- ☒ c. iris.head(), display the first 5 data ✖
- ☐ d. There are 4 features

The correct answer is: The number of instances or datasets or samples is only 5

Question 14

Correct

Mark 1.00 out of 1.00

Here's the code to predict New Data

Select one:

- ☐ a. x.shape
- ☐ b. model.coef
- ☒ c. model.predict(x_test) ✔
- ☐ d. model.fit(x_train, y_train)

The correct answer is: model.predict(x_test)

Question 15

Correct

Mark 1.00 out of 1.00

The following is the code for fitting the model to the data (training)...

Select one:

- ☐ a. model.predic(x_test)
- ☐ b. model.coef
- ☐ c. x.shape
- ☒ d. model. fit(x_train, y_train) ✓

The correct answer is: model. fit(x_train, y_train)

Question 16

Incorrect

Mark 0.00 out of 1.00

X1, X2, y1, y2 = train_test_split(X, y, random_state=0, train_size=0.5), which of these statements is wrong about this code..

Select one:

- ☒ a. Dataset separation is not randomized. ✗
- ☐ b. split the dataset into training data and test data
- ☐ c. split training data and test data are not separated.
- ☐ d. split training data and test data each 50% of the entire dataset.

The correct answer is: split training data and test data are not separated.

Question 17

Incorrect

Mark 0.00 out of 1.00

Validation that performs a sequence of fittings where each subset of the data can be used for training as well as for validation...

Select one:

- ☐ a. Cross Validation
- ☐ b. Holdout Validation
- ☒ c. All answer is wrong ✗

The correct answer is: Cross Validation


Question **18**

Correct

Mark 1.00 out of 1.00

Here are the Steps for the API Estimator...

Select one:

- ☐ a. Select the Hyperparameter model
- ☒ b. All answer is correct 
- ☐ c. Predict new data
- ☐ d. Choosing Model Class

The correct answer is: All answer is correct

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