Week-2 Quiz (Graded)

Total points **25/30** ?

Hope that you've gone through the course content for week-2 as well as the covered assignment before attempting the quiz.

- This form accepts the solution only once, so make sure you don't press the submit button accidentally. No requests will be entertained.
- Use the SAME email ID which you used for registering for Summer Analytics 2022.
- Please follow the honor code, which otherwise may lead to harsh actions being taken.

All the best :)

Email *

hridayagrawal0102@gmail.com

0 of 0 points

Name *

Hriday Agrawal

Enrolment ID *

This is a 5-digit number of the form XXXXX. It can be found in the enrolment confirmation mail sent to you.

41395

Are you from IIT Guwahati ? *

○ yes

◉ no

If you are from IIT Guwahati, provide your roll no.

....

Week-2 Quiz (Graded)　　　　　　　　　　　　　　**13 of 18 points**

Answer the following questions. All of them are multi-correct, There will not be any partial marking, you have to answer all the correct options to get full marks, There will not be any negative marking.

✓ What are the ways to handle missing values in a dataset?　　　　3/3

☑ Replace missing values with mean　　　　　　　　　　　　　✓

☑ Drop missing values　　　　　　　　　　　　　　　　　　　✓

☑ Replace missing values with median　　　　　　　　　　　　✓

☑ Assign them a special category　　　　　　　　　　　　　　✓

✓ Which ways can detect the outliers in data?　　　　　　　　2/2

☐ using classification algorithm

☑ using the IQR interquantile range　　　　　　　　　　　　✓

☑ using z score　　　　　　　　　　　　　　　　　　　　　✓

☑ using scatter plot　　　　　　　　　　　　　　　　　　　✓

✓   Which of the following statements are True?   3/3

☐   Gradient descent is one of the way to maximise cost function.

☐   Good regression model should maximise cost function.

☑   Learning rate should be low enough that it doesn't shoot other side of the curve.   ✓

☑   Learning rate should be large enough that we'll have fast descent   ✓

✗   Which of the following is true about gradient descent ?   0/3

☑   Gradient Descent finds the best-fit line for a given training dataset in a large number of iterations   ✗

☑   We calculate derivative of loss function with respect to weight in gradient descent.   ✓

☐   We calculate derivative of loss function with respect to bias in gradient descent.

☐   We calculate derivative of loss function with respect to intercept in gradient descent.

Correct answer

☑   We calculate derivative of loss function with respect to weight in gradient descent.

☑   We calculate derivative of loss function with respect to bias in gradient descent.

☑   We calculate derivative of loss function with respect to intercept in gradient descent.

✕   Which of these figure/figures best represent the decision boundary in   0/2
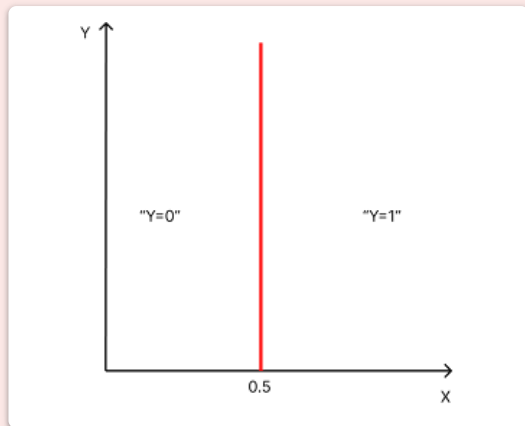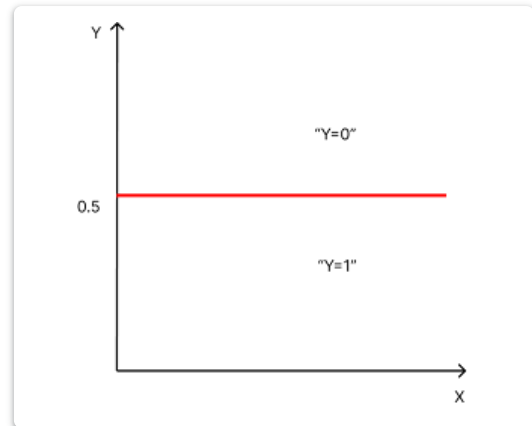logistic regression.
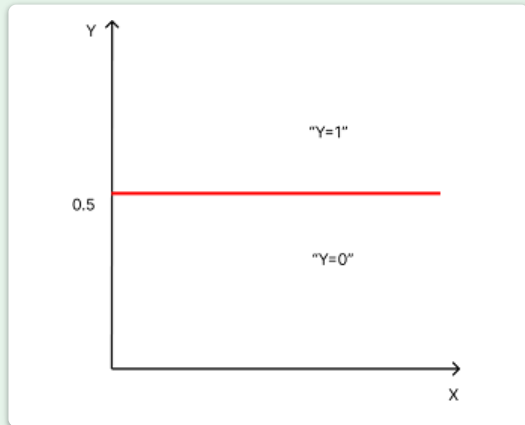
☑ Option 1   ✓
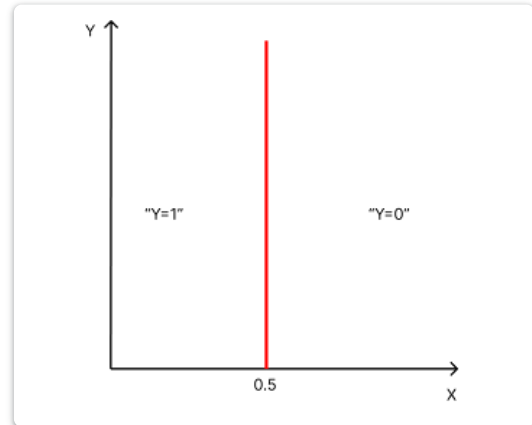
☐ Option 2

☑ Option 3   ✕

☐ Option 4

Correct answer

☑ Option 1

✓ Suppose there is a dataset containing rating (from 1-10) of web series in 2/2
Netflix . Which type of model will work best there?

| ✓ | Ordinal Logistic Regression | ✓ |

☐ Multinomial Logistic Regression

☐ Binary Logistic Regression

☐ Linear Regression

✓ What are the factors we look for to classify a problem as Logistic 3/3
Regression?

| ✓ | There should not be any dependency between the observations | ✓ |

☐ Predictors are correlated in logistic regression.

| ✓ | The logit of the outcome and each predictor variable should be linear dependent where logit is logit(p) = log(p/(1-p)). | ✓ |

☐ All of them.

Week-2 Quiz (Graded)   12 of 12 points

Answer the following questions. All of them are single-correct, They are based on assignment so try only after completing the assignment, you have to mark the correct options to get full marks, There will not be any negative marking.

✓   What is the shape of DataFrame named as data after dropping columns . 2/2

○ (40,2)

○ (40,3)

◉ (50,2)   ✓

○ (50, 3)

✓   What was the intercept value of the linear predicted line?   2/2

◉ -0.10228121   ✓

○ -0.10223121

○ 0.10228121

○ 0.10223121

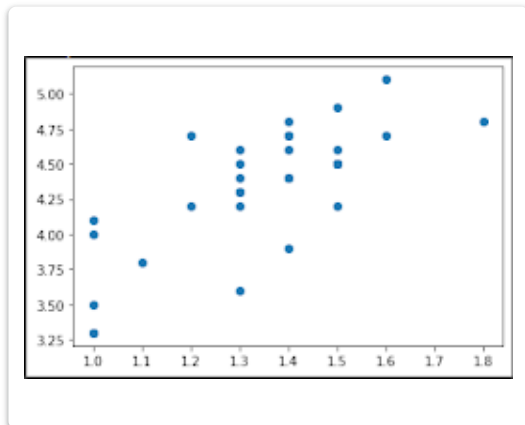
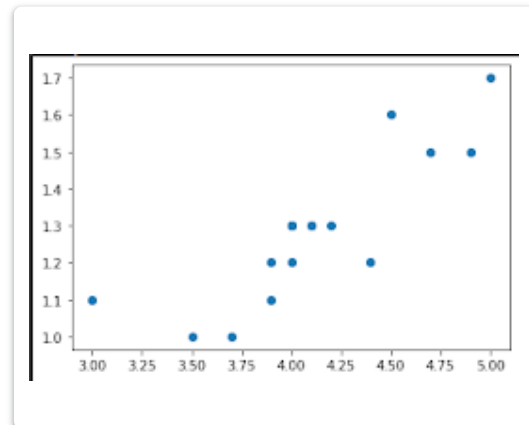✓   What was the coefficient value of the linear predicted line?   2/2

◉ 0.3338594   ✓

○ -0.3338594

○ 0.3558594

○ -0.3558594

✓ Which plot is similar to the train dataset scatter plot with x-axis as X_train 2/2
and y-axis as Y_train?

○ Option 1

○ Option 2
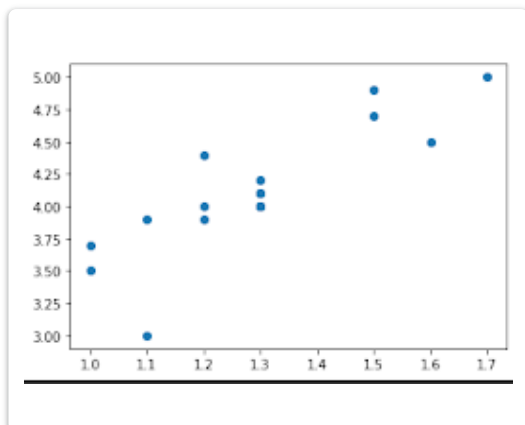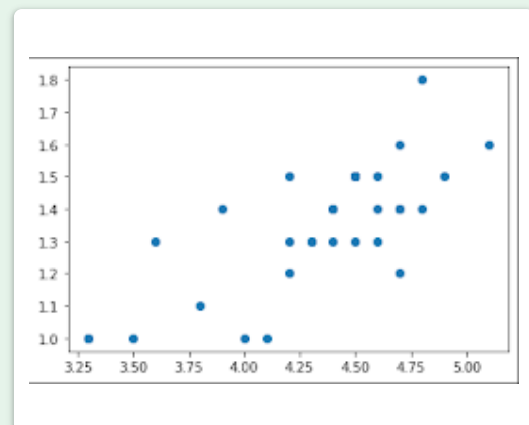
○ Option 3
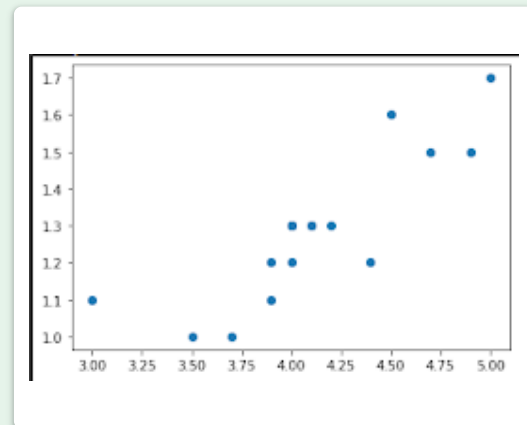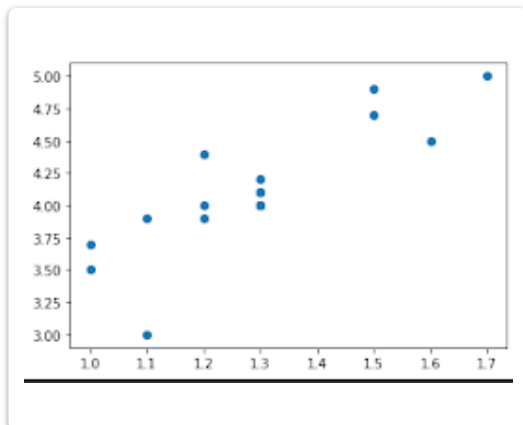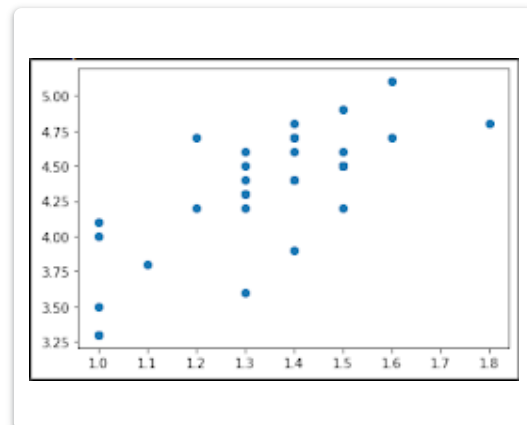

◉ Option 4   ✓

✓ Which Plot is similar to the test dataset scatter plot with x-axis as X_test 2/2
and y-axis as Y_test?
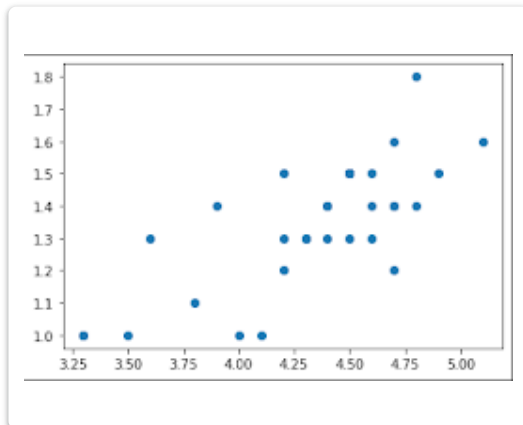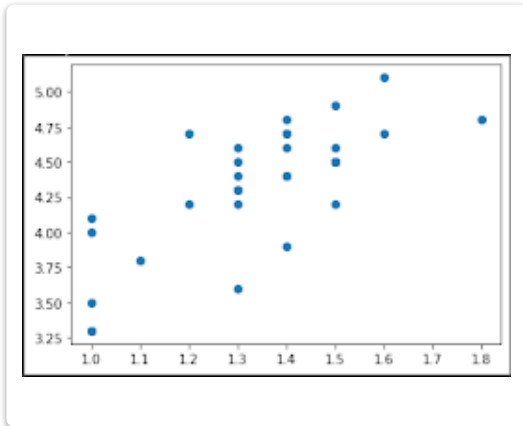

○ Option 1

◉ Option 2 ✓

○ Option 3
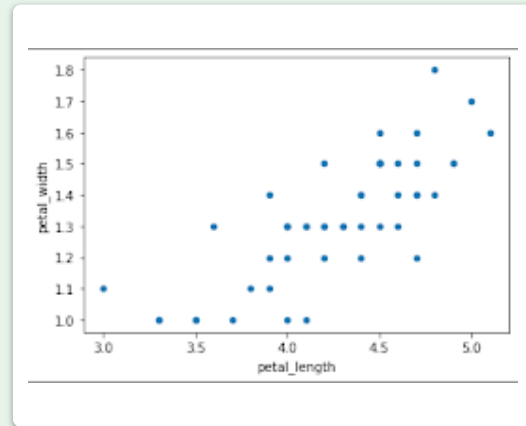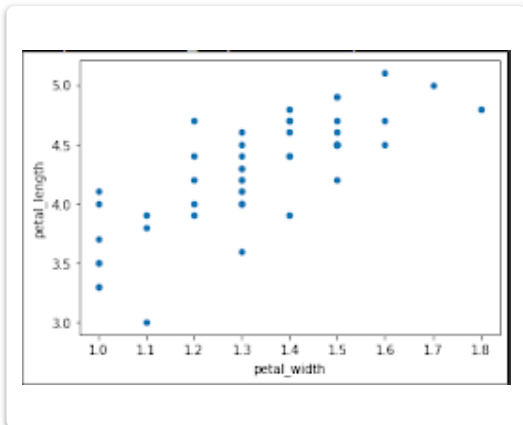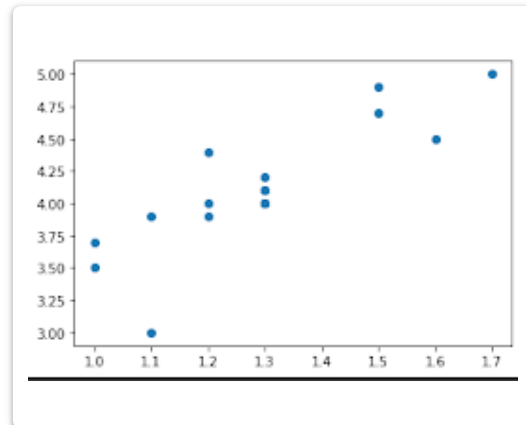

○ Option 4

✓ Which Plot is similar to the Dataframe named "data" having x axis as 'petal_length', y axis as 'petal_width' and kind='scatter'? **2/2**

○ Option 1

◉ Option 2 ✓

○ Option 3

○ Option 4

Week-2 Quiz (Graded)	0 of 0 points

You have reached the end of form .

✓ I have filled in the correct credentials in the first section, read all my answers, and confirmed that is my final submission.

◉ YES ✓

Google Forms