Question 1

What does the following line of code do? Im = LinearRegression() 1 / 1 point

Fits a regression object to the variable lm.

Predicts output values of a linear regression object.

Creates a linear regression object and stores it in the Im variable.

Assigns a linear regression model to the Im variable.

Correct

Correct! The LinearRegression() method is a constructor.

Question 2

What is the maximum value of R2 that you can obtain? 1 / 1 point

Any positive number

1



10

Correct

Correct! The largest value of the coefficient of determination is 1.

Question 3

If X is a data frame with 100 rows and 5 columns, and y is the target with 100 samples, and assuming you have imported all the relevant libraries and data have, and executed the following line of code: LR = LinearRegression()

LR.fit(X, y)

yhat = LR.predict(X)

How many samples does yhat contain? 1 / 1 point

5

20

500

100

Correct

Correct! The variable yhat contains the predicted values from a linear regression model using the array X as its input.

Question 4

Which statement about R2, the coefficient of determination, is true? 0 / 1 point

Its value can be between 0 and 1 inclusive.

Its value can be either 0 or 1.

Its value can be any positive number.

Its value can be in the range of -1 to 1, inclusive.

Question 5

Consider the following equation:







0







y=b

+b 1

Х

The variable



y is _____? 1 / 1 point

The degree of the polynomial

The intercept

The target or dependent variable

The predictor or independent variable

Correct

Correct! The variable



y is the output variable, which depends on the values of the other variable



x and parameters



0

b

and

