✓ 200 XP

Knowledge check

3 minutes

Answer the following questions to check your learning.

1. You plan to use scikit-learn to train a model that predicts credit default risk. The model must predict a value of 0 for loan applications that should be automatically approved, and 1 for applications where there is a risk of default that requires human consideration. What kind of model is required?

- ○ A binary classification model
  - ✓ That is correct. A binary classification model predicts probability for two classes.
- ◉ A multi-class classification model
  - ✗ That is incorrect. A multi-class classification model predicts probability for multiple class values.
- ○ A linear regression model

2. You have trained a classification model using the scikit-learn LogisticRegression class. You want to use the model to return labels for new data in the array x_new. Which code should you use?

- ○ model.predict(x_new)
  - ✓ That is correct. Use the predict method for inferencing labels for new data.
- ◉ model.fit(x_new)
  - ✗ That is incorrect. The fit() method is used to train a model.
- ○ model.score(x_new, y_new)

3. You train a binary classification model using scikit-learn. When you evaluate it with test data, you determine that the model achieves an overall Recall metric of 0.81. What does this metric indicate?

- ◉ The model correctly predicted 81% of the test cases

✗ That is incorrect. This information would be found using the Accuracy metric

○ 81% of the cases predicted as positive by the model were actually positive

○ The model correctly identified 81% of positive cases as positive

✓ That is correct. Recall indicates the proportion of actual positive cases that the classifier correctly identified.

Next unit: Summary

Continue >

How are we doing? ☆ ☆ ☆ ☆ ☆