

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

☐ 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)`

☐ `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

☐ 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.

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