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3

Fine-Tuning Your Model

100%

Having trained models, now you will learn how to evaluate them. In this chapter, you will be introduced to several metrics along with a visualization technique for analyzing classification model performance using scikit-learn. You will also learn how to optimize classification and regression models through the use of hyperparameter tuning.

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▶ How good is your model?

✓ 50 XP

⋮ Deciding on a primary metric

✓ 50 XP

⏪ Assessing a diabetes prediction classifier

✓ 100 XP

▶ Logistic regression and the ROC curve

✓ 50 XP

⏪ Building a logistic regression model

✓ 100 XP

⏪ The ROC curve

✓ 100 XP

⏪ ROC AUC

✓ 100 XP

▶ Hyperparameter tuning

✓ 50 XP

⏪ Hyperparameter tuning with GridSearchCV

✓ 100 XP

⏪ Hyperparameter tuning with RandomizedSearchCV

✓ 100 XP

4

Preprocessing and Pipelines

100%


Learn how to impute missing values, convert categorical data to numeric values, scale data, evaluate multiple supervised learning models simultaneously, and build pipelines to streamline your workflow!

Telecom Churn

Dataset

Music

Dataset




George Boorman

Curriculum Manager, DataCamp


George is a Curriculum Manager at DataCamp. He holds a PGDip in Exercise for Health and BSc (Hons) in Sports Science and has experience in project management across public health, applied research, and not-for-profit sectors. George is passionate about sports, tech for good, and all things data science.

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Getting Started (1/4)

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Getting Started (1/4)

4Preprocessing and Pipelines

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Preprocessing data

50 XP

Creating dummy variables

100 XP

Regression with categorical features

100 XP

Handling missing data

50 XP

Dropping missing data

100 XP

Pipeline for song genre prediction: I

100 XP

Pipeline for song genre prediction: II

100 XP

Centering and scaling

50 XP

Centering and scaling for regression

100 XP

Centering and scaling for classification

100 XP

Evaluating multiple models

50 XP

Visualizing regression model performance

100 XP

Predicting on the test set

100 XP

Visualizing classification model performance

100 XP

Pipeline for predicting song popularity

100 XP

Congratulations

50 XP

James Chapman

Izzy Weber