Logistic regression - Lesson overview

Logistic regression stands as a cornerstone in the realm of data science for solving binary classification problems, offering a powerful and intuitive approach to distinguishing between two possible outcomes. It serves not just as a **model** but as a bridge between linear regression and classification tasks, showcasing versatility in various applications from spam detection to medical diagnosis.

In this lesson, we'll learn how to implement logistic regression models with sklearn, tackle real-world classification problems, evaluate model performance as well as explore the **limitations** of logistic regression.

Learning objectives

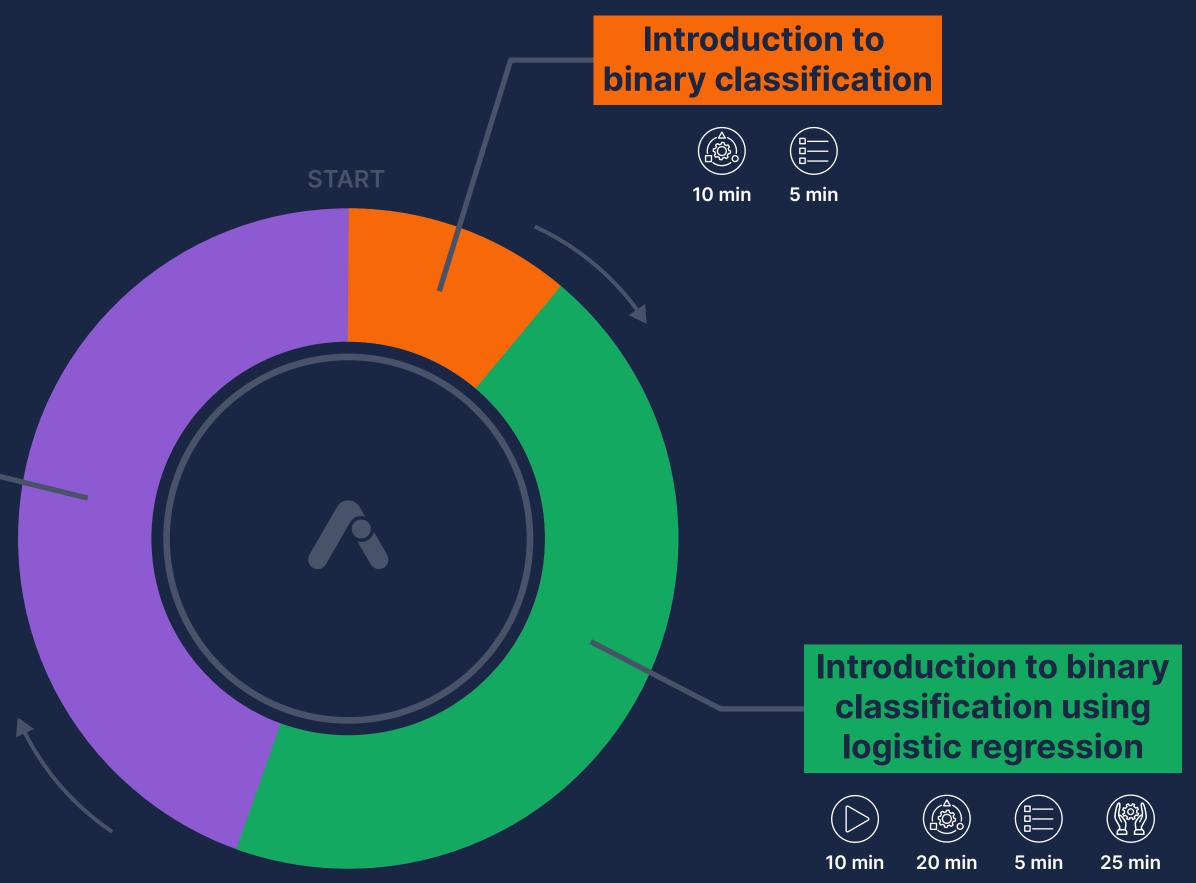
- Distinguish between binary classification and regression, understanding when and why to use each.
- Grasp the concept of logistic regression and its effectiveness in binary classification scenarios.
- Implement a logistic regression model using sklearn and evaluate its performance on real-world data.
- Develop skills in preprocessing data, fitting logistic regression models, and applying them to solve classification problems.



Logistic

regression

60 min





Examples



Knowledge questions







Code challenge