


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.

 **Examples**

 **Video**

 **Code challenge**

 **Knowledge questions**

 **Exercise**

