Variable selection and model persistence – Lesson overview

Variables are the **building blocks of machine learning models**, and all contribute to and affect the model building process differently. Variable selection is necessary as it aims to improve model performance, speeding up model training and reduce computational costs. In this lesson, we will examine variable selection techniques, and how to apply them to select the most informative features for our models.

We will also look at how to effectively save a trained machine learning model and load it for future use, ensuring it can be embedded into real-world systems, shared, or deployed without the need to retrain.

Learning objectives

- Understand the concept of variable selection and why it is important.
- Know and apply variable selection techniques and observe their impact on model performance.
- Know how to save a trained model and its parameters for future use.
- Know how to load a saved model and use it.

Saving and restoring models in Python









START

Variables and variable selection



Variable selection

6 min











Examples



Knowledge questions

