UNIVERSIDADE CATÓLICA PORTUGUESA

BRAGA

Machine Learning

Session 14 - PL

Support Vector Machines – Part 1

Degree in Applied Data Science

2024/2025

Linear Support Vector Machines in Scikit-Learn

- https://scikit-learn.org/stable/modules/generated/sklearn.svm.LinearSVC.html

sklearn.svm.LinearSVC

class sklearn.svm.**LinearSVC**(*penalty='l2', loss='squared_hinge', *, dual='warn', tol=0.0001, C=1.0, multi_class='ovr', fit_intercept=True, intercept_scaling=1, class_weight=None, verbose=0, random_state=None, max_iter=1000*) [source]

- https://scikit-learn.org/stable/modules/generated/sklearn.svm.LinearSVR.html

sklearn.svm.LinearSVR¶

class sklearn.svm.**LinearSVR**(**, epsilon=0.0, tol=0.0001, C=1.0, loss='epsilon_insensitive', fit_intercept=True, intercept_scaling=1.0, dual='warn', verbose=0, random_state=None, max_iter=1000*) [source]

Exercises:

- Notebooks on the github repository:
  - Notebook with examples:
    - exercises/session14/examples.ipynb
  - Notebook with exercises:
    - exercises/session14/exercises.ipynb