



UNIVERSIDADE
CATÓLICA
PORTUGUESA

BRAGA

Machine Learning

Session 17 - PL

Support Vector Machines – Part 1

Ciência de Dados Aplicada

2023/2024

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:
 - `Notebooks/session_17/examples.ipynb`
 - Notebook with exercises:
 - `Notebooks/session_17/exercises.ipynb`