support vector machine

# library link

<https://github.com/scikit-learn/scikit-learn/tree/main/sklearn/svm>

# basic description

Given a set of data belonging to either category, the SVM algorithm creates a non-probable binary linear classification model that determines which category new data belongs to based on the given dataset.

<https://en.wikipedia.org/wiki/Support-vector_machine>

# version

* NumPy >= 1.14.6 (pip install numpy)
* matplotlib == 3.22 (pip install matplotlib)
* sklearn == 1.0.2 (pip install sklearn)

# dataset

* Using Sklearn modules.

# code description

* The 40 data created by Sklearn's make\_blobs are binary classified using svm.

# validation

* x