```
import numpy as np
import matplotlib.pyplot as plt
from sklearn.svm import SVC
import data
class KSVMWrap:
  Metode:
    __init__(self, X, Y_, param_svm_c=1, param_svm_gamma='auto'):
    Konstruira omotač i uči RBF SVM klasifikator
    X, Y_:
                podatci i točni indeksi razreda
    param_svm_c: relativni značaj podatkovne cijene
    param_svm_gamma: širina RBF jezgre
  def __init__(self, X, Y_, param_svm_c=1, param_svm_gamma='auto'):
    self.model = SVC(C=param_svm_c, gamma=param_svm_gamma)
    self.model.fit(X, Y_)
  def predict(self, X):
    return self.model.predict(X)
  def get_scores(self, X):
    return self.model.decision_function(X)
  def support(self):
    return self.model.support_
if __name__ == "__main__":
  np.random.seed(100)
  X, Y_{\underline{}} = data.sample_gmm_2d(6, 2, 10)
  svm = KSVMWrap(X, Y_)
  Y = svm.predict(X)
  Y_{-} = np.hstack(Y_{-})
  accuracy, pr, M = data.eval_perf_multi(Y, Y_)
  print("Accuracy: ", accuracy)
  print("Precision / Recall: ", pr)
  print("Confussion Matrix: ", M)
  bounding_box = (np.min(X, axis=0), np.max(X, axis=0))
  data.graph_surface(svm.get_scores, bounding_box, offset=0.5)
  data.graph_data(X, Y_, Y, special=svm.support())
  plt.show()
```