# TODO: Import the three supervised learning models from sklearn

from sklearn.ensemble import AdaBoostClassifier

from sklearn.svm import SVC

from sklearn.neighbors import KNeighborsClassifier

# TODO: Initialize the three models

clf\_A = AdaBoostClassifier(random\_state=42)

clf\_B = SVC(random\_state=42)

clf\_C = KNeighborsClassifier()

# TODO: Calculate the number of samples for 1%, 10%, and 100% of the training data

samples\_1 = int(n\_records\*0.01)

samples\_10 = int(n\_records\*0.1)

samples\_100 = n\_records

# Collect results on the learners

results = {}

for clf in [clf\_A, clf\_B, clf\_C]:

clf\_name = clf.\_\_class\_\_.\_\_name\_\_

results[clf\_name] = {}

for i, samples in enumerate([samples\_1, samples\_10, samples\_100]):

results[clf\_name][i] = \

train\_predict(clf, samples, X\_train, y\_train, X\_test, y\_test)

# Run metrics visualization for the three supervised learning models chosen

vs.evaluate(results, accuracy, fscore)