*Mai Phan Nguyet Ngan - 17110058*

**SVM**

C = 1.0 # SVM regularization parameter

models = (svm.SVC(kernel='linear', C=C),

svm.SVC(kernel='rbf', gamma=0.7, C=C),

svm.SVC(kernel='poly', degree=3, gamma='auto', C=C))

models = (clf.fit(X, y) for clf in models)

1. Iris dataset

|  |  |  |
| --- | --- | --- |
| Linear | With C = 1 | With C = 20 |
| Polynomial | With C = 1, degree=3.0, gamma = ‘auto’ | With C = 1, degree=5.0, gamma = ‘auto’ |
| RBF | With gamma = 0.7, C = 1 | With gamma=40, C = 1 |

1. Breast cancer dataset

|  |  |  |
| --- | --- | --- |
| Linear | With C = 1 | With C = 100 |
| Polynomial | Không có mô tả.  With C = 1, degree=3.0, gamma = ‘auto’ | With C = 1, degree=2.0, gamma = ‘auto’ |
| RBF | With gamma = 0.7, C = 1 | With gamma= 50000, C = 1 |