

	User ID	Gender	Age	EstimatedSalary	Purchased
0	15624510	Male	19	19000	0
1	15810944	Male	35	20000	0
2	15668575	Female	26	43000	0
3	15603246	Female	27	57000	0
4	15804002	Male	19	76000	0

```
from sklearn.svm import SVC
classifier = SVC(kernel = 'linear', random_state = 0)
classifier.fit(X_train, y_train)
```

SVC

SVC(kernel='linear', random\_state=0)

```
y_Pred=classifier.predict(X_test)
y_Pred
```

```
array([0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 1,
        0, 1, 0, 1, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0,
        1, 0, 0, 1, 0, 1, 1, 0, 0, 0, 1, 0, 0, 0, 0, 0, 1, 0, 0, 0, 1,
        0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 1, 0, 1, 1, 1, 1, 0, 0, 1, 1, 0, 1,
        0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 1, 1], dtype=int64)
```

```
from sklearn.metrics import accuracy_score
accuracy_score(y_test, y_Pred)
```

0.9

```
from sklearn.svm import SVC
classifier = SVC(kernel = 'rbf', gamma=15, C=7, random_state=0)
classifier.fit(X_train, y_train)
```

SVC

SVC(C=7, gamma=15, random\_state=0)

```
y_Pred=classifier.predict(X_test)
y_Pred
```

```
array([0, 0, 0, 0, 0, 0, 0, 1, 0, 1, 0, 0, 0, 0, 0, 1, 0, 0, 1, 0, 0, 0,
        0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0,
        1, 0, 0, 1, 0, 1, 1, 0, 0, 1, 1, 1, 0, 0, 1, 0, 1, 0, 1,
        0, 0, 0, 0, 1, 0, 0, 1, 0, 0, 0, 0, 1, 1, 1, 1, 0, 0, 0, 0, 0, 1,
        1, 0, 0, 1, 0, 0, 0, 0, 0, 1, 1, 1], dtype=int64)
```

```
from sklearn.metrics import accuracy_score
accuracy_score(y_test, y_Pred)
```

0.89

```
from sklearn.svm import SVC
classifier = SVC(kernel = 'poly', degree=4)
classifier.fit(X_train, y_train)
```

▼ SVC

SVC(degree=4, kernel='poly')

```
y_Pred=classifier.predict(X_test)
y_Pred
```

```
array([0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 1,
        0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 0,
        0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 1, 0, 0, 1, 0, 0, 1, 0, 0, 0, 0,
        0, 0, 0, 0, 1, 0, 0, 1, 0, 0, 0, 0, 1, 0, 0, 0, 0, 1, 0, 0, 0,
        0, 0, 0, 1, 0, 0, 0, 0, 0, 1, 0, 0], dtype=int64)
```

```
from sklearn.metrics import accuracy_score
accuracy_score(y_test, y_Pred)
```

0.79