

Problem: Micro Organism Identification



Data: Triangle and Circles:



0



1

Machine Learning Model and Data Pipeline:

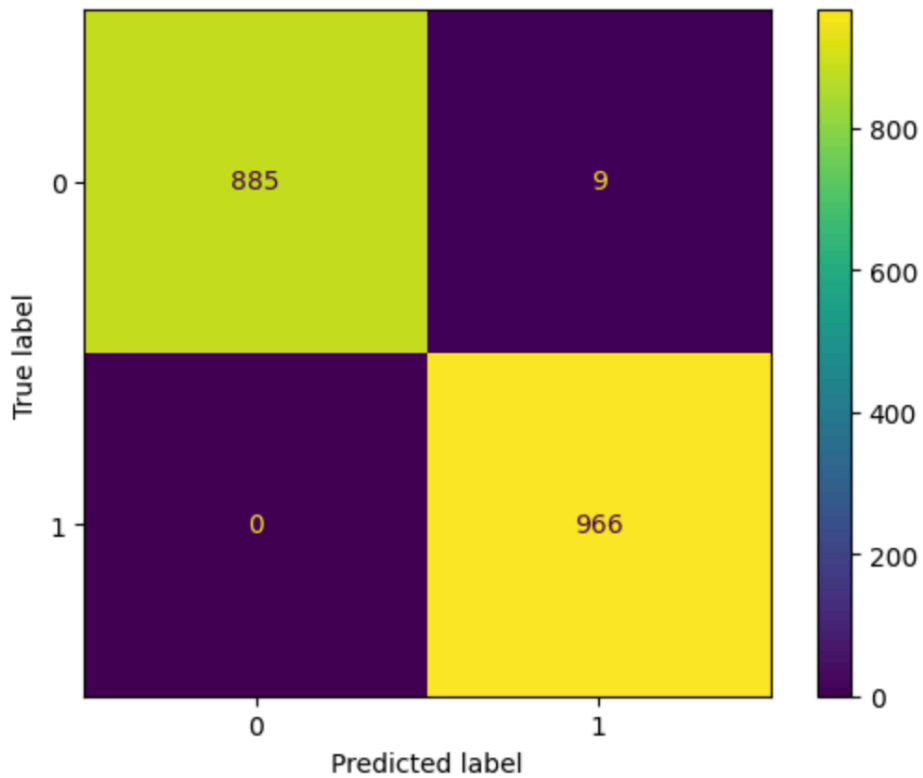
StandardScaler – SVC.

Accuracy: 0.99518

StandardScaler – Perceptron.

Accuracy: 0.99494

Final Result Visualization:



```
test_file_name = 'test_t1.PNG'  
tep = io.imread(os.path.join(test_file_name), as_gray=True).reshape(1,-1)  
clf.predict(tep)[0]
```

Out[11]: 1