

# Internship Task 4 - Machine Learning Model Implementation

**Project:** Spam Email Detection using Scikit-learn

**Dataset:** SMS Spam Collection (UCI Repository)

**Accuracy:** 0.9725

**Classification Report:**

```
precision recall f1-score support Ham 0.98 0.99 0.99 965 Spam 0.94 0.90 0.92 150
accuracy 0.97 1115 macro avg 0.96 0.95 0.96 1115 weighted avg 0.97 0.97 0.97 1115
```

**Confusion Matrix:**

```
[[955 10] [ 15 135]]
```