

```

>
> table(data$Dead,pred2)
  pred2
    0    1
0 6465 179
1  518 363
>
> acc = mean(pred2 == data$Dead)
> print(paste('Accuracy = ',acc))
[1] "Accuracy = 0.907375415282392"
>
> table(data$Dead,pred)
  pred
    0    1
0 6518 126
1  724 157
>
> acc = mean(pred == data$Dead)
> print(paste('Accuracy = ',acc))
[1] "Accuracy = 0.887043189368771"

```

เริ่ม ทวน RandomForestClassifier

ทวน สรีจแล้ว!

Accuracy: 0.9089700996677741

ROC AUC: 0.9059870590482836

| | precision | recall | f1-score | support |
|--------------|-----------|--------|----------|---------|
| 0 | 0.92 | 0.98 | 0.95 | 1323 |
| 1 | 0.73 | 0.40 | 0.51 | 182 |
| accuracy | | | 0.91 | 1505 |
| macro avg | 0.82 | 0.69 | 0.73 | 1505 |
| weighted avg | 0.90 | 0.91 | 0.90 | 1505 |

เริ่มเทรน Decision Tree...

เทรนเสร็จแล้ว!

Accuracy: 0.8770764119601329

ROC AUC: 0.6884121169835455

| | precision | recall | f1-score | support |
|--------------|-----------|--------|----------|---------|
| 0 | 0.92 | 0.94 | 0.93 | 1323 |
| 1 | 0.49 | 0.44 | 0.46 | 182 |
| accuracy | | | 0.88 | 1505 |
| macro avg | 0.71 | 0.69 | 0.70 | 1505 |
| weighted avg | 0.87 | 0.88 | 0.87 | 1505 |

เริ่มเทรน Neural Network (MLP)

เทรนเสร็จแล้ว!

Accuracy: 0.8764119601328904

ROC AUC: 0.8586877974633076

| | precision | recall | f1-score | support |
|--------------|-----------|--------|----------|---------|
| 0 | 0.94 | 0.92 | 0.93 | 1323 |
| 1 | 0.49 | 0.59 | 0.54 | 182 |
| accuracy | | | 0.88 | 1505 |
| macro avg | 0.72 | 0.75 | 0.73 | 1505 |
| weighted avg | 0.89 | 0.88 | 0.88 | 1505 |

เริ่มเทรน K-Nearest Neighbors

เทรน สร็จแล้ว!

Accuracy: 0.9023255813953488

ROC AUC: 0.7930361399749155

| | precision | recall | f1-score | support |
|--------------|-----------|--------|----------|---------|
| 0 | 0.92 | 0.98 | 0.95 | 1323 |
| 1 | 0.70 | 0.34 | 0.46 | 182 |
| accuracy | | | 0.90 | 1505 |
| macro avg | 0.81 | 0.66 | 0.70 | 1505 |
| weighted avg | 0.89 | 0.90 | 0.89 | 1505 |

เริ่มเทรน Support Vector Machine

เทรน สร็จแล้ว!

Accuracy: 0.9009966777408638

ROC AUC: 0.8319295972357198

| | precision | recall | f1-score | support |
|--------------|-----------|--------|----------|---------|
| 0 | 0.91 | 0.98 | 0.95 | 1323 |
| 1 | 0.69 | 0.34 | 0.45 | 182 |
| accuracy | | | 0.90 | 1505 |
| macro avg | 0.80 | 0.66 | 0.70 | 1505 |
| weighted avg | 0.89 | 0.90 | 0.89 | 1505 |

เริ่มเทรน Gradient Boosting

เทรนเสร็จแล้ว!

Accuracy: 0.9076411960132891

ROC AUC: 0.9044961085777412

| | precision | recall | f1-score | support |
|--------------|-----------|--------|----------|---------|
| 0 | 0.92 | 0.98 | 0.95 | 1323 |
| 1 | 0.70 | 0.41 | 0.52 | 182 |
| accuracy | | | 0.91 | 1505 |
| macro avg | 0.81 | 0.69 | 0.73 | 1505 |
| weighted avg | 0.90 | 0.91 | 0.90 | 1505 |