For dataset “CKD.csv”

SVM:

`Hyper tuning parameter :` {'C': 1000, 'kernel': 'linear'}

Confusion matrix:

```
[[43  2]
 [ 2 73]]
```

Classification report:

	precision	recall	f1-score	support
0	0.96	0.96	0.96	45
1	0.97	0.97	0.97	75
accuracy			0.97	120
macro avg	0.96	0.96	0.96	120
weighted avg	0.97	0.97	0.97	120

Decision Tree:

```
HyperTuning parameter is  {'criterion': 'gini', 'splitter': 'random'}
Confusion Matrix :  [[43  2]
 [ 4 71]]
ClassificationReport is:
```

	precision	recall	f1-score	support
0	0.91	0.96	0.93	45
1	0.97	0.95	0.96	75
accuracy			0.95	120
macro avg	0.94	0.95	0.95	120
weighted avg	0.95	0.95	0.95	120

Random Forest :

```
HyperTuning parameter is  {'criterion': 'gini', 'max_features': 'log2', 'n_estimators': 50}
Confusion Matrix :  [[44  1]
 [ 1 74]]
ClassificationReport is:
```

	precision	recall	f1-score	support
0	0.98	0.98	0.98	45
1	0.99	0.99	0.99	75
accuracy			0.98	120
macro avg	0.98	0.98	0.98	120
weighted avg	0.98	0.98	0.98	120

LogisticRegression

```
HyperTuning parameter is  {'penalty': 'l2', 'solver': 'liblinear'}
CM :  [[43  2]
 [ 1 74]]
CR:               precision    recall  f1-score   support

           0       0.98      0.96      0.97        45
           1       0.97      0.99      0.98        75

    accuracy                           0.97       120
   macro avg       0.98      0.97      0.97       120
weighted avg       0.98      0.97      0.97       120
```

KNN

```
HyperTuning parameter is  {'metric': 'minkowski', 'n_neighbors': 12, 'p': 2}
CM :  [[41  4]
 [28 47]]
CR:               precision    recall  f1-score   support

           0       0.59      0.91      0.72        45
           1       0.92      0.63      0.75        75

    accuracy                           0.73       120
   macro avg       0.76      0.77      0.73       120
weighted avg       0.80      0.73      0.74       120
```

Naïve bayes

GaussianNB

```
[[45  0]
 [ 2 73]]
              precision    recall  f1-score   support

           0       0.96      1.00      0.98        45
           1       1.00      0.97      0.99        75

    accuracy                           0.98       120
   macro avg       0.98      0.99      0.98       120
weighted avg       0.98      0.98      0.98       120
```

MultiNominalNB

```
[[44  1]
 [21 54]]
              precision    recall  f1-score   support

           0       0.68      0.98      0.80        45
           1       0.98      0.72      0.83        75

    accuracy                           0.82       120
   macro avg       0.83      0.85      0.82       120
weighted avg       0.87      0.82      0.82       120
```

ComplementNB

```
[[44  1]
 [21 54]]
              precision    recall  f1-score   support

           0       0.68      0.98      0.80        45
           1       0.98      0.72      0.83        75

    accuracy                           0.82       120
   macro avg       0.83      0.85      0.82       120
weighted avg       0.87      0.82      0.82       120
```

BernoulliNB

```
[[45  0]
 [ 6 69]]
              precision    recall  f1-score   support

           0       0.88      1.00      0.94        45
           1       1.00      0.92      0.96        75

    accuracy                           0.95       120
   macro avg       0.94      0.96      0.95       120
weighted avg       0.96      0.95      0.95       120
```

CategoricalNB

```
[[45  0]
 [ 2 73]]
              precision    recall  f1-score   support

           0       0.96      1.00      0.98        45
           1       1.00      0.97      0.99        75

    accuracy                           0.98       120
   macro avg       0.98      0.99      0.98       120
weighted avg       0.98      0.98      0.98       120
```