

Predict the Chronic Kidney Disease (CKD)

Machine Learning - Supervised Learning- Classification.

(Total number of rows, columns)399 rows × 25 columns.

1. Logistic-Grid

```
print("The confusion Matrix:\n",cm)
```

The confusion Matrix:

```
[[51  0]
 [ 1 81]]
```

```
print("The report:\n",clf_report)
```

The report:

	precision	recall	f1-score	support
0	0.98	1.00	0.99	51
1	1.00	0.99	0.99	82
accuracy			0.99	133
macro avg	0.99	0.99	0.99	133
weighted avg	0.99	0.99	0.99	133

2. SVM-Grid

```
: print("The confusion Matrix:\n",cm)
```

The confusion Matrix:

```
[[51  0]
 [ 1 81]]
```

```
: print("The report:\n",clf_report)
```

The report:

	precision	recall	f1-score	support
0	0.98	1.00	0.99	51
1	1.00	0.99	0.99	82
accuracy			0.99	133
macro avg	0.99	0.99	0.99	133
weighted avg	0.99	0.99	0.99	133

3. DC-Grid

```
print("The confusion Matrix:\n",cm)
```

The confusion Matrix:

```
[[49  2]
 [10 72]]
```

```
print("The report:\n",clf_report)
```

The report:

	precision	recall	f1-score	support
0	0.83	0.96	0.89	51
1	0.97	0.88	0.92	82
accuracy			0.91	133
macro avg	0.90	0.92	0.91	133
weighted avg	0.92	0.91	0.91	133

4. RF-Grid

```
print("The confusion Matrix:\n",cm)
```

The confusion Matrix:

```
[[50  1]
 [ 1 81]]
```

```
print("The report:\n",clf_report)
```

The report:

	precision	recall	f1-score	support
0	0.98	0.98	0.98	51
1	0.99	0.99	0.99	82
accuracy			0.98	133
macro avg	0.98	0.98	0.98	133
weighted avg	0.98	0.98	0.98	133

5. KNN

```
print(clf_report)
```

	precision	recall	f1-score	support
0	0.57	0.78	0.66	51
1	0.83	0.63	0.72	82
accuracy			0.69	133
macro avg	0.70	0.71	0.69	133
weighted avg	0.73	0.69	0.70	133

```
print(cm)
```

```
[[40 11]  
 [30 52]]
```

6. Naive Bayes

	precision	recall	f1-score	support
0	0.86	1.00	0.93	51
1	1.00	0.90	0.95	82
accuracy			0.94	133
macro avg	0.93	0.95	0.94	133
weighted avg	0.95	0.94	0.94	133

```
[[51  0]  
 [ 8 74]]
```