```
     Age  EDUC  SES  CDR  MMSE       Group
0     87    14  2.0  0.0  27.0  Nondemented
1     88    14  2.0  0.0  30.0  Nondemented
5     88    18  3.0  0.0  28.0  Nondemented
6     90    18  3.0  0.0  27.0  Nondemented
7     80    12  4.0  0.0  28.0  Nondemented
..   ...   ...  ...  ...   ...          ...
368   82    16  1.0  0.5  28.0     Demented
369   86    16  1.0  0.5  26.0     Demented
370   61    13  2.0  0.0  30.0  Nondemented
371   63    13  2.0  0.0  30.0  Nondemented
372   65    13  2.0  0.0  30.0  Nondemented

[354 rows x 6 columns]
     Age  EDUC  SES  CDR  MMSE  Group
0     87    14  2.0  0.0  27.0      0
1     88    14  2.0  0.0  30.0      0
5     88    18  3.0  0.0  28.0      0
6     90    18  3.0  0.0  27.0      0
7     80    12  4.0  0.0  28.0      0
..   ...   ...  ...  ...   ...    ...
368   82    16  1.0  0.5  28.0      1
369   86    16  1.0  0.5  26.0      1
370   61    13  2.0  0.0  30.0      0
371   63    13  2.0  0.0  30.0      0
372   65    13  2.0  0.0  30.0      0
```

0-Nondemented Correlation Matrix: 0.02 Age & EDUC
0.5-Converted Correlation Matrix: 0.00 MMSE & EDUC
1-Demented Correlation Matrix: 0.03 Age & CDR, SES & MMSE
Overall mentioned Age: 3, EDUC: 2, MMSE: 2

Logistic Regression
Logistic Regression Accuracy: 87.57%
Confusion Matrix:

	0 (Nondemented)	1 (Converted/Demented)
0 (Nondemented)	5	15
1 (Converted/Demented)	5	152

Decision tree
Decision tree accuracy:88.14%
Decision Tree Confusion Matrix:

	0 (Nondemented)	1 (Converted/Demented)
0 (Nondemented)	85	9
1 (Converted/Demented)	12	71

Random Forest
Random Forest accuracy:93.22%
Random Forest Confusion Matrix:

	0 (Nondemented)	1 (Converted/Demented)
0 (Nondemented)	91	3
1 (Converted/Demented)	9	74

```
k-NN
kNN accuracy:76.84%
k-NN Confusion Matrix:
                          0 (Nondemented)   1 (Converted/Demented)
0 (Nondemented)                        89                        5
1 (Converted/Demented)                 36                       47


Model                  TP  FP  TN  FN Accuracy     TPR     TNR
0  Logistic Regression 152  15   5   5   88.70%  96.82%  25.00%
1          Decision Tree  71   9  85  12   88.14%  85.54%  90.43%
2          Random Forest  74   3  91   9   93.22%  89.16%  96.81%
3                   k-NN  47   5  89  36   76.84%  56.63%  94.68%
```