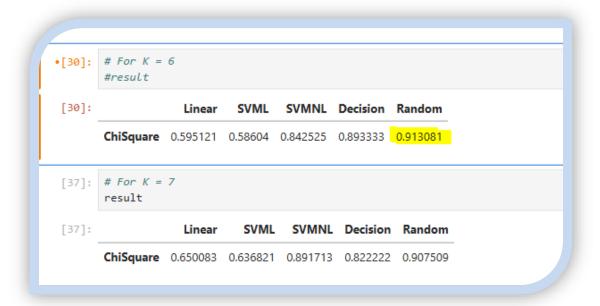
Feature Selection

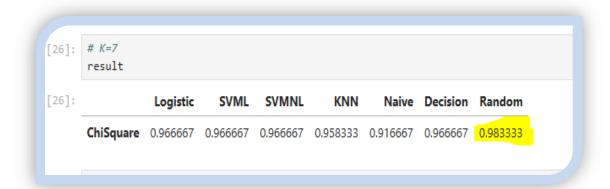
SELECT K

1. Select K Regression:



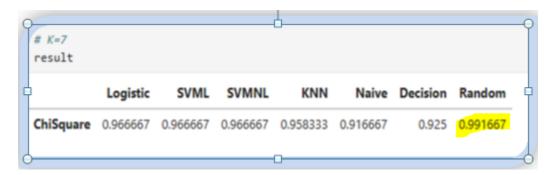
In Select K Regression, columns = 6 gives 0.91as highest chi square value in Random Forest algorithm therby we found the best model.

2.a) Select K Classification(Before Grid_Search):



In Select k Classification, if we take feature selection for 7 columns, we get the highest chi square value of 0.98 for Random Forest Algorithm before grid search therby we found the best model.

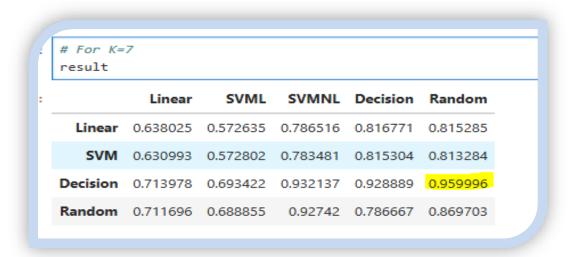
2.b) Select K Classification(After Grid_Search):



In Select k Classification, if we take feature selection for 7 columns, we get the highest chi square of 0.99 after the grid search for Random Forest Algorithm therby we found the best model.

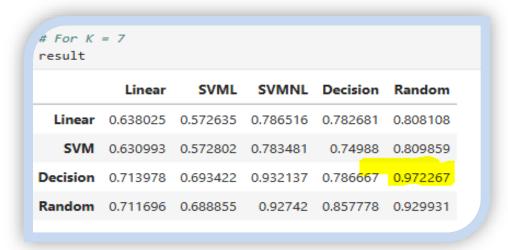
RECURSIVE FEATURE ELIMINATION

1a). RFE Regression(Before GridSearch):



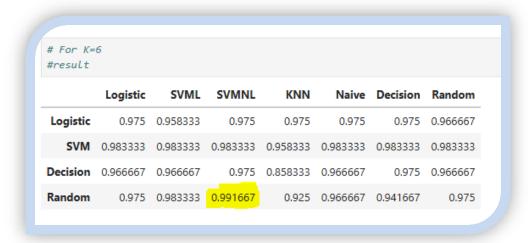
In RFE regression, if we take feature selection for 7 columns, we get the highest accuracy_score value of 0.95 for Decision Tree featured with Random Forest Algorithm before Grid Search therby we found the best model.

1b). RFE Regression(After GridSearch):



In RFE regression, if we take feature selection for 7 columns, we get the highest accuracy_score value of 0.97 for Decision Tree featured with Random Forest Algorithm therby we found the best model..

2. RFE(Classification):



In RFE classification, if we take feature selection for 6 columns, we get the highest accuracy_score value of 0.99 for Random Forest featured with SVM non-linear Algorithm therby we found the best model..