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2. GRID SEARCH

```
[51]: from sklearn.model_selection import GridSearchCV
parameters = {'n_neighbors' : [1,3,5,7,9,11,13]}
model = KNeighborsClassifier()
clf = GridSearchCV(model,parameters, scoring='accuracy', cv=5)
grille = clf.fit(X_train_sc,y_train)
print(grille.best_params_)
print(grille.best_score_)

{'n_neighbors': 11}
0.8194957983193276

[52]: y_pred_knn_o = grille.predict(X_test_sc)

[53]: knn_op_acc=accuracy_score(y_test,y_pred_knn_o)
knn_op_rec=recall_score(y_test,y_pred_knn_o)
knn_op_prec=precision_score(y_test,y_pred_knn_o)
print('Confusion matrix knn op \n', confusion_matrix(y_test,y_pred_kr
print('Accuracy knn op', knn_op_acc)
print('Recall knn op', knn_op_rec)
```