Creating model for the best value ok K

```
test_scor
es={}
train_scor
es={}
for i in range(2,4,2):
    kf = KFold(n_splits
    = i)sum_train = 0
    sum_
    test
    = 0
    data
    = df
    for train,test in
        kf.split(data):
        train_data =
        data.iloc[train,:]
        test_data =
        data.iloc[test,:]
        x_train =
        train_data.drop(["prog"],axis=1)
        y_train = train_data['prognosis']
        x_test =
        test_data.drop(["prog"],axis=
        1)y_test =
        test_data["prognosis"]
        algo_model =
        dt.fit(x_train,y_train)
        sum_train +=
        dt.score(x_train,y_train)
        y_pred = dt.predict(x_test)
        sum_test +=
    accuracy_score(y_test,y_pred)average_test
    = sum_test/i
    average_train =
    sum_train/i
    test_scores[i] =
    average_test
    train_scores[i] =
    average_train
    print("kvalue: ",i)
```

- Saving the model in binary form:

```
from sklearn.externals import joblib
```

```
joblib.dump(dt,'my_model_for_healthcare')
```