KNN (classified data)

December 18, 2022

[1]:
```
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
import numpy as np
%matplotlib inline
```

[2]:
```
df = pd.read_csv("Classified Data.csv",index_col=0)
```

[3]:
```
df.head()
```

[3]:

	WTT	PTI	EQW	SBI	LQE	QWG	FDJ	PJF	HQE	NXJ	TARGET CLASS
0	0.913917	1.162073	0.567946	0.755464	0.780862	0.352608	0.759697	0.643798	0.879422	1.231409	1
1	0.635632	1.003722	0.535342	0.825645	0.924109	0.648450	0.675334	1.013546	0.621552	1.492702	0
2	0.721360	1.201493	0.921990	0.855595	1.526629	0.720781	1.626351	1.154483	0.957877	1.285597	0
3	1.234204	1.386726	0.653046	0.825624	1.142504	0.875128	1.409708	1.380003	1.522692	1.153093	1
4	1.279491	0.949750	0.627280	0.668976	1.232537	0.703727	1.115596	0.646691	1.463812	1.419167	1

[4]:
```
from sklearn.preprocessing import StandardScaler
```

[5]:
```
scaler = StandardScaler()
```

[6]:
```
scaler.fit(df.drop('TARGET CLASS',axis=1))
```

[6]:
```
StandardScaler()
```

[7]:
```
scaled_features = scaler.transform(df.drop('TARGET CLASS',axis=1))
```

[8]:
```
df_feat = pd.DataFrame(scaled_features,columns=df.columns[:-1])
df_feat.head()
```

[8]:

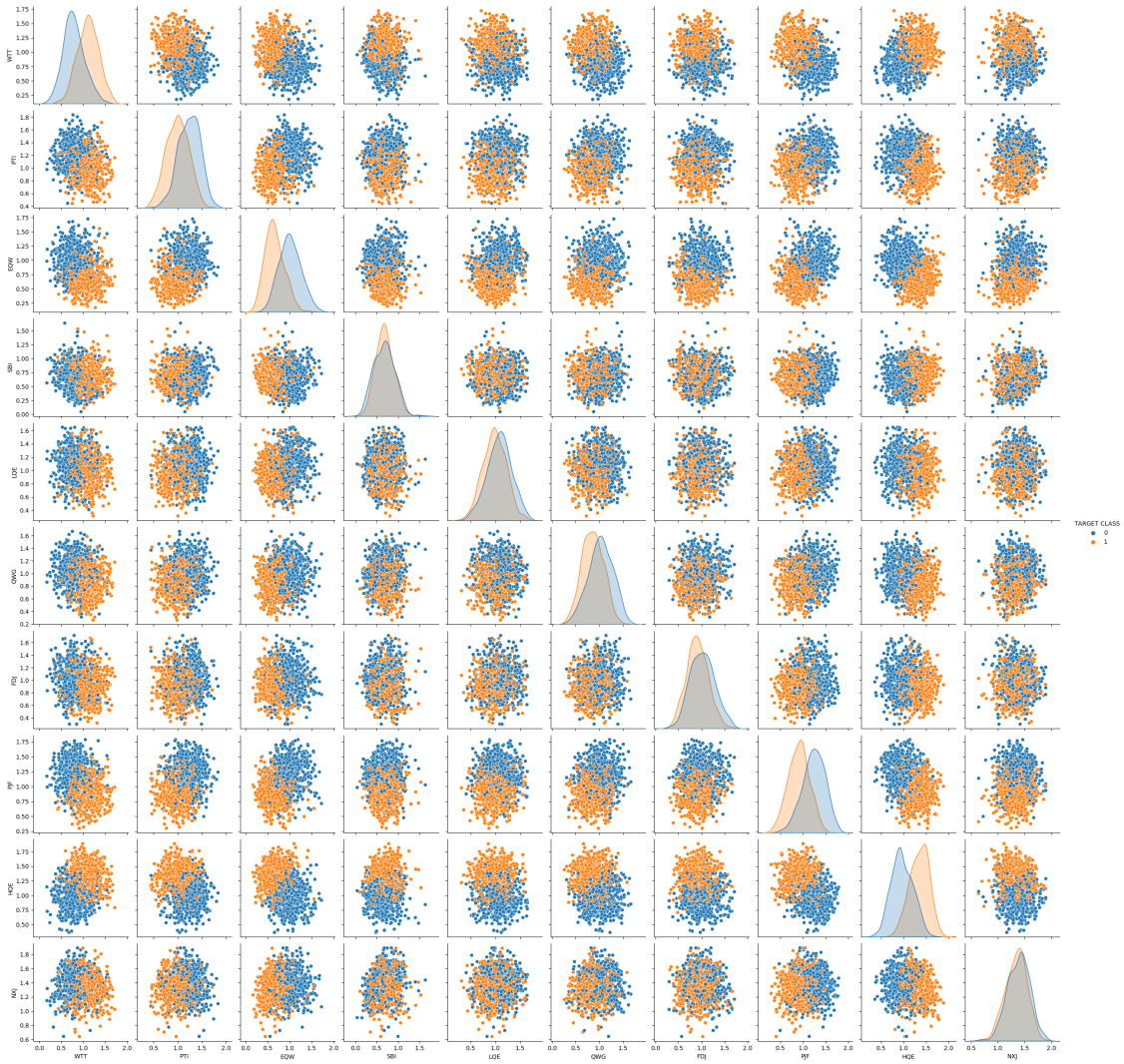
	WTT	PTI	EQW	SBI	LQE	QWG	FDJ	\
0	-0.123542	0.185907	-0.913431	0.319629	-1.033637	-2.308375	-0.798951	
1	-1.084836	-0.430348	-1.025313	0.625388	-0.444847	-1.152706	-1.129797	
2	-0.788702	0.339318	0.301511	0.755873	2.031693	-0.870156	2.599818	
3	0.982841	1.060193	-0.621399	0.625299	0.452820	-0.267220	1.750208	
4	1.139275	-0.640392	-0.709819	-0.057175	0.822886	-0.936773	0.596782	

	PJF	HQE	NXJ
0	-1.482368	-0.949719	-0.643314
1	-0.202240	-1.828051	0.636759
2	0.285707	-0.682494	-0.377850
3	1.066491	1.241325	-1.026987
4	-1.472352	1.040772	0.276510

[9]:
```
import seaborn as sns

sns.pairplot(df,hue='TARGET CLASS')
```

[9]: <seaborn.axisgrid.PairGrid at 0x2130249b760>



[10]:
```
from sklearn.model_selection import train_test_split
```

[11]:
```
X_train, X_test, y_train, y_test = train_test_split(scaled_features,df['TARGET␣
↪CLASS'],
                                                    test_size=0.30)
```

[12]:
```
from sklearn.neighbors import KNeighborsClassifier
```

[13]:
```
knn = KNeighborsClassifier(n_neighbors=1)
```

[14]:
```
knn.fit(X_train,y_train)
```

[14]:
```
KNeighborsClassifier(n_neighbors=1)
```

[15]:
```
pred = knn.predict(X_test)
```

```
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[16]:
```
from sklearn.metrics import classification_report,confusion_matrix
from sklearn.model_selection import cross_val_score
```

[17]:
```
print(confusion_matrix(y_test,pred))
```

```
[[128  20]
 [  9 143]]
```

[18]:
```
print(classification_report(y_test,pred))
```

```
              precision    recall  f1-score   support

           0       0.93      0.86      0.90       148
           1       0.88      0.94      0.91       152

    accuracy                           0.90       300
   macro avg       0.91      0.90      0.90       300
weighted avg       0.91      0.90      0.90       300
```

[19]:
```
accuracy_rate = []

for i in range(1,40):

    knn = KNeighborsClassifier(n_neighbors=i)
    score=cross_val_score(knn,df_feat,df['TARGET CLASS'],cv=10)
    accuracy_rate.append(score.mean())
```

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```

[20]:

```
error_rate = []

for i in range(1,40):

    knn = KNeighborsClassifier(n_neighbors=i)
    score=cross_val_score(knn,df_feat,df['TARGET CLASS'],cv=10)
    error_rate.append(1-score.mean())
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  mode, _ = stats.mode(_y[neigh_ind, k], axis=1)
```

[21]:
```
error_rate = []

for i in range(1,40):

    knn = KNeighborsClassifier(n_neighbors=i)
    knn.fit(X_train,y_train)
    pred_i = knn.predict(X_test)
    error_rate.append(np.mean(pred_i != y_test))
```

```
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```
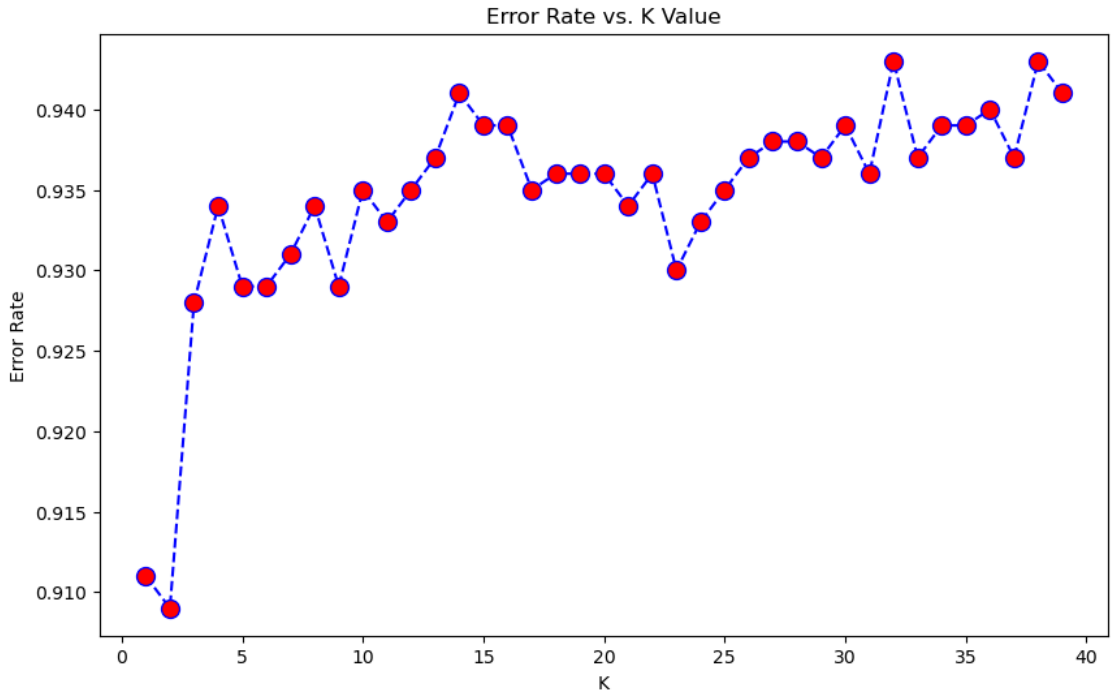

[22]:
```
plt.figure(figsize=(10,6))
plt.plot(range(1,40),accuracy_rate,color='blue', linestyle='dashed', marker='o',
         markerfacecolor='red', markersize=10)
plt.title('Error Rate vs. K Value')
plt.xlabel('K')
plt.ylabel('Error Rate')
```

[22]:
```
Text(0, 0.5, 'Error Rate')
```



[23]:
```
knn = KNeighborsClassifier(n_neighbors=1)

knn.fit(X_train,y_train)
pred = knn.predict(X_test)

print('WITH K=1')
print('\n')
print(confusion_matrix(y_test,pred))
print('\n')
print(classification_report(y_test,pred))
```

```
WITH K=1


[[128  20]
 [  9 143]]


              precision    recall  f1-score   support

           0       0.93      0.86      0.90       148
           1       0.88      0.94      0.91       152

    accuracy                           0.90       300
   macro avg       0.91      0.90      0.90       300
```

```
weighted avg       0.91      0.90      0.90       300
```

```
C:\Users\Deepak\ana-conda-3\lib\site-
packages\sklearn\neighbors\_classification.py:228: FutureWarning: Unlike other
reduction functions (e.g. `skew`, `kurtosis`), the default behavior of `mode`
typically preserves the axis it acts along. In SciPy 1.11.0, this behavior will
change: the default value of `keepdims` will become False, the `axis` over which
the statistic is taken will be eliminated, and the value None will no longer be
accepted. Set `keepdims` to True or False to avoid this warning.
  mode, _ = stats.mode(_y[neigh_ind, k], axis=1)
```

[24]:
```
knn = KNeighborsClassifier(n_neighbors=23)

knn.fit(X_train,y_train)
pred = knn.predict(X_test)

print('WITH K=23')
print('\n')
print(confusion_matrix(y_test,pred))
print('\n')
print(classification_report(y_test,pred))
```

```
WITH K=23


[[128  20]
 [  5 147]]


              precision    recall  f1-score   support

           0       0.96      0.86      0.91       148
           1       0.88      0.97      0.92       152

    accuracy                           0.92       300
   macro avg       0.92      0.92      0.92       300
weighted avg       0.92      0.92      0.92       300
```

```
C:\Users\Deepak\ana-conda-3\lib\site-
packages\sklearn\neighbors\_classification.py:228: FutureWarning: Unlike other
reduction functions (e.g. `skew`, `kurtosis`), the default behavior of `mode`
typically preserves the axis it acts along. In SciPy 1.11.0, this behavior will
change: the default value of `keepdims` will become False, the `axis` over which
the statistic is taken will be eliminated, and the value None will no longer be
accepted. Set `keepdims` to True or False to avoid this warning.
  mode, _ = stats.mode(_y[neigh_ind, k], axis=1)
```

[ ]: