

```

In [91]: import pandas as pd
...:
...:
...: df=pd.read_csv('G:\Data Analysis\output.csv')
...: df=df.dropna()
...: X = df.iloc[:,8:22].values
...: y = df.iloc[:, 1].values
...: for i in range(len(y)):
...:     y[i]=int(y[i])
...:
...:
...:
...: from sklearn.preprocessing import LabelEncoder, OneHotEncoder
...: labelencoder_X_1 = LabelEncoder()
...: X[:, 1] = labelencoder_X_1.fit_transform(X[:, 1])
...: labelencoder_X_4 = LabelEncoder()
...: X[:, 4] = labelencoder_X_4.fit_transform(X[:, 4])
...: labelencoder_X_5= LabelEncoder()
...: X[:, 5] = labelencoder_X_5.fit_transform(X[:, 5])
...: labelencoder_X_7 = LabelEncoder()
...: X[:, 7] = labelencoder_X_7.fit_transform(X[:, 7])
...: labelencoder_X_8= LabelEncoder()
...: X[:, 8] = labelencoder_X_8.fit_transform(X[:, 8])
...: labelencoder_X_10 = LabelEncoder()
...: X[:, 10] = labelencoder_X_10.fit_transform(X[:, 10])
...: labelencoder_X_12= LabelEncoder()
...: X[:, 12] = labelencoder_X_12.fit_transform(X[:, 12])
...: labelencoder_X_13 = LabelEncoder()
...: X[:, 13] = labelencoder_X_13.fit_transform(X[:, 13])
...:
...:
...:
...: onehotencoder = OneHotEncoder(categorical_features=[1,4,5,7,8,10,12])
...: X = onehotencoder.fit_transform(X).toarray()
...:
...: X=X[:,1:]
...:
...: from sklearn.model_selection import train_test_split
...: X_train, X_test, y_train, y_test = train_test_split(X, y, test_size = 0.4,
random_state = 0)
...:
...: from sklearn.neighbors import KNeighborsClassifier
...:
...: classifier = KNeighborsClassifier(n_neighbors = 10, metric = 'minkowski', p = 2)
...: classifier.fit(X_train, y_train)
...:
...: c=0
...: y_pred = classifier.predict(X_test)
...: for i in range(len(y_pred)):
...:     y_pred[i]=int(y_pred[i])
...:     y_pred[i]=(y_pred[i]<=y_test[i]+2 and y_pred[i]>=y_test[i]-2)
...:     if(y_pred[i]):
...:         c+=1
...:
...: acc=float(c/len(y_test))
C:\Users\HP\Music\Anaconda3\lib\site-packages\sklearn\preprocessing\_encoders.py:371:

```

FutureWarning: The handling of integer data will change in version 0.22. Currently, the categories are determined based on the range [0, max(values)], while in the future they will be determined based on the unique values.

If you want the future behaviour and silence this warning, you can specify "categories='auto'".

In case you used a LabelEncoder before this OneHotEncoder to convert the categories to integers, then you can now use the OneHotEncoder directly.

```
warnings.warn(msg, FutureWarning)
```

C:\Users\HP\Music\Anaconda3\lib\site-packages\sklearn\preprocessing_encoders.py:392:

DeprecationWarning: The 'categorical_features' keyword is deprecated in version 0.20 and will be removed in 0.22. You can use the ColumnTransformer instead.

```
"use the ColumnTransformer instead.", DeprecationWarning)
```

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In [92]: acc
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Out[92]: 0.8856485034535687
```

```
In [93]:
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